

Reichelt  
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# THOMAFLUID® I

Tubings made of elastomers

Laboratory Tubings  
Pressure Tubings  
Pharmaceutical Tubing  
Pump Tubings

**Materials:**

**CR** - chloroprene rubber

**EPDM** - ethylene-propylene-diene rubber

**EPDM/PP** - copolymer

**EVA** - ethylene-vinyl-acetate

**FPM** - fluorinated rubber

**Glass fabric**

**IIR** - isobutylene-isoprene-rubber

**NBR** - butadiene-acrylonitrile rubber

**NR** - natural rubber

**Polyolefine**

**PUR** - polyurethane

**PVC** - polyvinyl chloride

**SBR** - styrene-butadiene rubber

**Silicone**

**Reichelt Chemietechnik '15**

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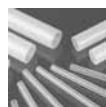
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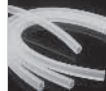


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## Tubing made of Elastomers (Soft Rubber) CR Tubing

### THOMAFLUID®-CR Laboratory and Gas Tubing

#### Product specification

- Robust tubing compound
- Good mechanical stability
- Good elastic behaviour
- Good abrasion resistance
- Good thermal resistance
- High flame resistance
- Good resistance to aging, ozone, and weather

#### Technical specification

- **Material:** CR (chloroprene rubber)
- **Colour:** black
- **Density:** 1.54 ±0.03 g/cm<sup>3</sup>
- **Shore hardness A:** 50° ±5°
- **Temperature range:** -30 to +100 °C, for a short time +120 °C
- **Tensile strength:** >6.0 MPa
- **Elongation at break:** >500 %
- **Tolerance:** DIN ISO 3302-1 E2 (DIN 7715 E2)



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
24740	1	3	3	17.00
24743	1.5	3	3	17.00
24744	1.5	3	9	44.00
24745	1.5	3	15	62.00
24746	2	4	3	17.00
24747	2	4	9	44.00
24748	2	4	15	62.00
24749	3	5	3	17.00
24750	3	5	9	44.00
24751	3	5	15	62.00
24752	4	6	3	17.00
24753	4	6	9	44.00
24754	4	6	15	62.00
24755	4	7	3	25.00
24756	4	7	9	64.00
24757	4	7	15	87.00
24761	5	8	3	27.00
24762	5	8	9	69.00
24763	5	8	15	95.00
24767	6	9	3	27.00
24768	6	9	9	69.00
24769	6	9	15	95.00
24773	7	10	3	50.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
24774	7	10	9	118.00
24775	7	10	15	167.00
24779	8	12	3	50.00
24780	8	12	9	118.00
24781	8	12	15	167.00
24782	10	14	3	50.00
24783	10	14	9	118.00
24784	10	14	15	167.00
340704 <sup>1</sup>	12	16	3	54.00
340705 <sup>1</sup>	12	16	9	132.00
340706 <sup>1</sup>	12	16	15	170.00
24785	12	17	3	60.00
24786	12	17	9	136.00
24787	12	17	15	197.00
24788	15	21	3	81.00
24789	15	21	9	177.00
24790	15	21	15	238.00
340707 <sup>1</sup>	18	24	3	106.00
340708 <sup>1</sup>	18	24	9	252.00
340709 <sup>1</sup>	18	24	15	314.00
24791	20	27	3	108.00
24792	20	27	9	232.00
24793	20	27	15	288.00
340710 <sup>1</sup>	22	29	3	120.00
340711 <sup>1</sup>	22	29	9	270.00
340712 <sup>1</sup>	22	29	15	306.00
340713 <sup>1</sup>	25	32	3	134.00
340714 <sup>1</sup>	25	32	9	302.00
340715 <sup>1</sup>	25	32	15	342.00

<sup>1</sup> Shore hardness A: 65° ±5°

### THOMAFLUID®-CR Gas Tubing for Gas Burner

#### Technical specification

- **Material:** CR (chloroprene rubber)
- **Colour:** orange-red
- **Max. operating pressure:** up to 100 mbar
- **Design:** without jacket and armor according to DIN 30664, Part 1
- **Regulations:** for all gases according to DVGW working sheet G 260; DIN-DVGW-Reg.-No. 92.01e487



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
12304	10	14	2	5	92.00
12305	10	14	2	10	169.00
12306	10	14	2	15	231.00

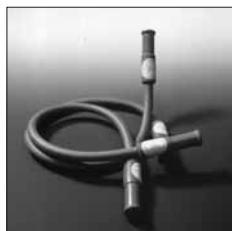
## THOMAFLUID®-CR Gas Tubing for Gas Burner with End Sleeves

### Product specification

- High flexibility and elasticity of both, tubing and stainless steel armor
- Kinking not possible, therefore interruption of gas feeding excluded
- End sleeves stick closely to the hose nozzle even without attachment

### Technical specification

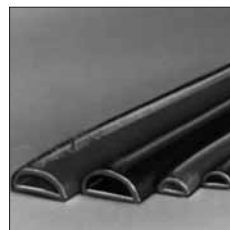
- **Material:** CR (chloroprene rubber)
- **Colour:** orange-red
- **Max. operating pressure:** up to 100 mbar
- **Max. temperature:** +70 °C
- **Regulations:** for all kind of gas burners according to DIN 30665 and all gases according to DVGW working sheet G 260; DIN-DVGW-Reg.-No. G92e073



Item	Inside Ø mm	Outside Ø mm	Length mm	Unit piece	Price EURO
12307	9	13	500	1	59.00
12308	9	13	600	1	64.00
12309	9	13	750	1	69.00
12310	9	13	1,000	1	80.00
12311	9	13	1,250	1	90.00
12312	9	13	1,500	1	95.00
12313	9	13	2,000	1	116.00
12314	9	13	3,000	1	177.00

### Technical specification

- **Material:** EPDM
- **Colour:** black
- **Shore hardness A:** 70° ±5° (DIN 53505)
- **Temperature range:** -60 to +160 °C
- **Density:** 1.36 g/cm<sup>3</sup>
- **Compression set:** 17 % at +75 °C / 22 h
- **Tearing strength:** 75 kg/cm<sup>2</sup>
- **Elongation at break:** 280 %
- **Rebound elasticity:** 36 %
- **Notch impact strength:** 5 - 6 kg/cm<sup>2</sup>
- **Thermal conductivity:** 165 - 280 kcal/h x m<sup>2</sup> x °C



Item	Material	Width of bottom mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
93169	EPDM	8	1.5	6	113.00
93170	EPDM	15	1.5	6	167.00
43902	EPDM	30	1.5	6	266.00

<sup>1</sup> at +20 °C

## RCT®-Accessories: Profile Connector made of Stainless Steel

### Application area

- Connecting and coupling of THOMAFLUID®-Heat Exchanger Profile Tubing



Item	Width of bottom mm	Connection type	Unit piece	Price EURO
43906	8	Nozzle (NW 4) with int. thread 1/4"	2	30.00
439061	8	Double nozzle (NW 4)	2	26.00
43907	15	Nozzle (NW 8) with int. thread 1/2"	2	30.00
439071	15	Double nozzle (NW 8)	2	26.00
43908	30	Nozzle (NW 15) with int. thread 1"	2	30.00
439081	30	Double nozzle (NW 15)	2	26.00

## EPDM Tubing

### THOMAFLUID®-Heat Exchanger EPDM Profile Tube

#### Application area

- Cooling, heating, and warming of reaction flasks, chromatography columns and troughs, cultivation vessels, measuring set-ups.

#### Product specification

- Elastic, thermoconductive special tube with optimized circular segment profile, for winding around all kind of equipment, with connecting pieces fitting to the tubing connection of thermostates and other thermomedia conveying systems. Pressure- and temperature loadable, high thermal conductivity due to special polymer formulations and large effective contact surfaces
- Width of contact surface (width of bottom) alternatively 8, 15 or 30 mm, length 6 m each
- Optionally, special connecting pieces for coupling of heat exchanger tubes of equal dimensions (items 43906 to 439081)
- Usable for water, steam, cooling brine, lower and higher alcohols (such as methanol, ethanol, and glycols) as well as for motor oils. Not usable for halogenated and aromatic hydrocarbons
- Ethyl alcohol is used as cooling liquid below 0 °C

## THOMAFLUID®-EPDM Corrugated Bellows Tubing Component

### Product specification

- Flexible corrugated bellows component without insert
- Very good resistance to weather
- Good resistance to aging, heat, and cold
- Resistant to hot water and antifreeze agents
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils

### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Temperature range:** -30 to +130 °C
- **Max. operating pressure:** 2 bar at +20 °C; 1.2 bar at +130 °C



Item	Inside Ø mm	Max. internal elongation mm	Outside Ø mm	Length of end fitting mm	Min. bending radius mm	Unit m	Price EURO
49804	20	25	40	25	70	1	82.00
49805	25	31	45	25	85	1	95.00
49806	31.5	36	53	30	105	1	118.00
49807	33.5	38	52	25	110	1	123.00
49808	37	44	58	30	115	1	141.00
49809	44	48	65	30	120	1	167.00
49810	48	55	73	30	125	1	177.00

## THOMAFLUID®-EPDM Chemical Tubing

### Application area

- Chemical engineering, plant construction, process technology, mechanical engineering

### Product specification

- Extremely elastic rubber compound
- Best resistance to many dilute alkalis, acids, and polar solvents, except to mineral oils
- Very good resistance to weather
- Good resistance to aging, heat, and cold
- Chemical tubing resistant to hot water and antifreeze agents

### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Shore hardness A:** 60° ±5° (DIN 53505)
- **Temperature range:** -35 to +120 °C
- **Density:** 1.18 ±0.2 g/cm³ (DIN 53479)
- **Tensile strength:** 10 MPa (DIN 53504)
- **Elongation at break:** 250 % (DIN 53504)
- **Compression set:** at +100 °C / 2 h: 20 % (DIN 53517) at -25 °C / 2 h: 70 % (DIN 53517)
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thick-ness mm	Unit m	Price EURO
330122	3	7	2	5	48.00
330123	3	7	2	15	116.00
330124	4	7	1.5	5	44.00
330125	4	7	1.5	15	108.00
330126	4	8	2	5	54.00
330127	4	8	2	15	132.00
330128	5	8	1.5	5	48.00
330129	5	8	1.5	15	118.00
330130	6	9	1.5	5	58.00
330131	6	9	1.5	15	134.00
330132	6	10	2	5	68.00
330133	6	10	2	15	162.00
330134	7	11	2	5	70.00
330135	7	11	2	15	164.00
330136	8	12	2	5	78.00
330137	8	12	2	15	188.00
330138	10	14	2	5	96.00
330139	10	14	2	15	232.00
330140	12	16	2	5	112.00
330141	12	16	2	15	268.00

## THOMAFLUID®-EPDM Industrial Tubing

### Application area

- Chemical industry, laboratory technology, industrial construction, process engineering, vehicle construction

### Product specification

- Pressure tubing with elastic properties
- Industrial tubing resistant to hot water and antifreeze agents
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils
- Very good resistance to weather
- Good resistance to aging, cold, and heat



**Technical specification**

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour**  
Liner: black, smooth  
Jacket: black, smooth, with textile imprint
- **Temperature range:** -30 to +110 °C
- **Bursting pressure:** 3fold operating pressure
- **Insert:** synthetic fabric

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
14067 <sup>2</sup>	8	14.7	10	45	5	59.00
14068 <sup>2</sup>	8	14.7	10	45	10	100.00
14069 <sup>2</sup>	9.5	16.3	10	50	5	67.00
14070 <sup>2</sup>	9.5	16.3	10	50	10	113.00
49424	12	18	15	100	5	100.00
49425	12	18	15	100	10	169.00
14071 <sup>2</sup>	12.7	19.8	10	60	5	82.00
14072 <sup>2</sup>	12.7	19.8	10	60	10	139.00
49428	14	20	10	105	5	141.00
49429	14	20	10	105	10	231.00
49430	15	21	10	120	5	126.00
49431	15	21	10	120	10	210.00
14073 <sup>2</sup>	15.9	23	10	70	5	126.00
14074 <sup>2</sup>	15.9	23	10	70	10	210.00
49434	17	24	10	140	5	139.00
49435	17	24	10	140	10	220.00
49436	18	24	10	145	5	141.00
49437	18	24	10	145	10	236.00
49438 <sup>2</sup>	19	27	10	80	5	133.00
49439 <sup>2</sup>	19	27	10	80	10	213.00
49440	20	26	10	160	5	149.00
49441	20	26	10	160	10	246.00
49442	22	29	10	175	5	162.00
49443	22	29	10	175	10	261.00
14075 <sup>2</sup>	25.4	33.7	10	110	5	162.00
14076 <sup>2</sup>	25.4	33.7	10	110	10	261.00
14077	28	35	8	230	5	159.00
14078	28	35	8	230	10	266.00
49446	30	38	6	250	5	167.00
49447	30	38	6	250	10	277.00
14079	32	40	6	280	5	172.00
14080	32	40	6	280	10	287.00
49448	35	43	6	300	5	185.00
49449	35	43	6	300	10	312.00
14081	38	46	6	310	5	192.00
14082	38	46	6	310	10	320.00
14083	40	50	5	320	5	225.00
14084	40	50	5	320	10	376.00
14085	42	52	5	350	5	248.00
14086	42	52	5	350	10	412.00
49450	45	55	5	380	5	264.00
49451	45	55	5	380	10	438.00
14087	48	58	5	400	5	274.00
14088	48	58	5	400	10	456.00
49452	50	60	4	420	5	279.00
49453	50	60	4	420	10	463.00
12461	55	65	4	450	3	162.00

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12462	55	65	4	450	6	261.00
12463	60	70	3	500	3	172.00
12464	60	70	3	500	6	282.00
12465	65	75	3	550	3	185.00
12466	65	75	3	550	6	300.00
12467	70	80	3	600	1	75.00
12468	70	80	3	600	3	174.00
12469	75	85	3	650	1	80.00
12470	75	85	3	650	3	187.00
12471	80	92	3	700	1	92.00
12472	80	92	3	700	3	225.00
12473	90	102	3	800	1	100.00
12474	90	102	3	800	3	233.00
12475	100	112	3	850	1	110.00
12476	100	112	3	850	3	269.00
12477	110	122	3	900	1	126.00
12478	110	122	3	900	3	305.00
12479	120	132	3	1,000	1	139.00
12480	120	132	3	1,000	3	341.00

<sup>1</sup> at +20 °C <sup>2</sup> Jacket: black, smooth, without textile imprint

**THOMAFLUID®-EPDM Coolant Hose**

**Application area**

- Automobile industry, chemical engineering, maintenance engineering, operating technology, plant technology, heating engineering, air-conditioning technology

**Product specification**

- Resistant to antifreezing agents
- Resistant to anti-corrosion agents
- Resistant to many acids, alkalies, polar solutions except to mineral oils
- Good resistance to aging and weather
- Good elastic properties

**Technical specification**

- **Material**  
Liner: EPDM (ethylene-propylene-diene rubber)  
Jacket: CR (chloroprene rubber)
- **Colour**  
Liner: black, smooth  
Jacket: black, textile imprint
- **Temperature range:** -30 to +130 °C
- **Max. operating pressure:** 4 bar at +20 °C
- **Bursting pressure:** 12 bar at +20 °C
- **Regulations:** according to DIN 73411, Ed. July 1979
- **Tubing imprint:** DIN 73411/1979, production data



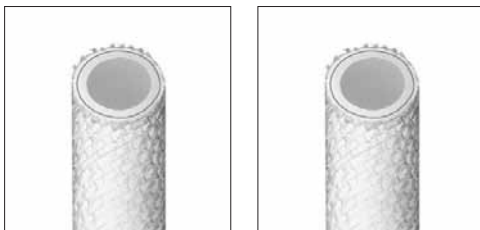


Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340124	10	16	4	3	84.00
340125	10	16	4	5	126.00
340126	13	20	4	3	96.00
340127	13	20	4	5	144.00
340128	15	22	4	3	90.00
340129	15	22	4	5	152.00
340130	18	25	4	3	108.00
340131	18	25	4	5	162.00
340132	20	27	4	3	114.00
340133	20	27	4	5	172.00
340134	22	29	4	3	114.00
340135	22	29	4	5	172.00
340136	25	32	4	3	120.00
340137	25	32	4	5	176.00
340138	28	36	4	3	134.00
340139	28	36	4	5	202.00
340140	30	38	4	3	146.00
340141	30	38	4	5	218.00
340142	32	40	4	3	156.00
340143	32	40	4	5	232.00
340144	35	43	4	3	166.00
340145	35	43	4	5	248.00
340146	38	48	4	3	190.00
340147	38	48	4	5	262.00
340148	40	50	4	3	196.00
340149	40	50	4	5	270.00
340150	42	52	4	3	210.00
340151	42	52	4	5	316.00
340152	45	55	4	1	76.00
340153	45	55	4	3	198.00
340154	48	58	4	1	84.00
340155	48	58	4	3	224.00
340156	50	60	4	1	86.00
340157	50	60	4	3	232.00
340158	55	65	4	1	86.00
340159	55	65	4	3	232.00
340160	60	70	4	1	88.00
340161	60	70	4	3	236.00

<sup>1</sup> at +20 °C

### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour**  
Liner: white, smooth, electrically insulating  
Jacket: white, with cured-on fabric braiding
- **Temperature range:** up to +100 °C (inside); up to +450 °C (outside, as radiant heat)
- **Max. operating pressure:** 20 bar at +20 °C
- **Bursting pressure:** 60 bar at 25 °C
- **Sterilization:** autoclavable at +121 °C



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340106	13	25	20	3	174.00
340107	13	25	20	5	260.00
340108	19	31	20	3	198.00
340109	19	31	20	5	296.00
340110	25	39	20	1	76.00
340111	25	39	20	3	208.00
340112	32	48	20	1	94.00
340113	32	48	20	3	254.00
340114	38	58	20	1	120.00
340115	38	58	20	3	322.00
340116	40	57	20	1	120.00
340117	40	57	20	3	322.00
340118	42	60	20	1	120.00
340119	42	60	20	3	322.00
340120	45	62	20	1	126.00
340121	45	62	20	3	338.00
340122	50	70	20	1	146.00
340123	50	70	20	3	392.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-EPDM Industrial Tubing - glass fabric braiding

#### Application area

- Cooling water engineering, where there are high ambient temperatures
- Thermal process technology and process engineering
- Chemical apparatus construction
- High-temperature engineering

#### Product specification

- Pressure tubing with autoclavable glass fabric braiding
- Liner electrically insulating
- Jacket made of highly heat-resistant glass fabric braiding
- High mechanical stability

### THOMAFLUID®-EPDM Pressure Tubing

#### Product specification

- Special tubing for chemical engineering
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils
- Very good mechanical properties
- Very good resistance to aging, weather, and ozone

#### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Temperature range:** -30 to +100 °C
- **Insert:** two rayon fabric inserts
- **Design:** inside and outside smooth (with textile imprint and green marker strip)



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12527	10	17	20	100	5	131.00
12528	10	17	20	100	10	223.00
12529	12.7	21	20	130	5	141.00
12530	12.7	21	20	130	10	233.00
12531	16	24	20	160	5	146.00
12532	16	24	20	160	10	246.00
12533	19	28	20	190	5	174.00
12534	19	28	20	190	10	289.00
12535	22	31	20	220	5	202.00
12536	22	31	20	220	10	335.00
12537	25.4	35	20	250	1	49.00
12538	25.4	35	20	250	3	118.00
12539	30	41	20	300	1	54.00
12540	30	41	20	300	3	133.00
12541	35	46	12	350	1	64.00
12542	35	46	12	350	3	154.00
12543	40	52	12	400	1	72.00
12544	40	52	12	400	3	172.00
12545	45	57	12	450	1	85.00
12546	45	57	12	450	3	202.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-EPDM High-Temperature Pressure Tubing for Dairy and Food

#### Product specification

- Evaporating tubing for dairies
- Cleaning tubing for the food processing industry
- Usable for highest temperatures
- High resistance to aging, weather, and ozone
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils

#### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** inside light-coloured, outside blue-coloured
- **Temperature range:** -30 to +95 °C
- **Sterilization:** saturated steam (+164 °C)
- **Max. operating pressure:** 6 bar at +164 °C
- **Insert:** two polyester inserts
- **Design:** inside and outside smooth (with textile imprint)
- **Conformity:** the inner layer is produced conforming to FDA and suitable for food contact

Item	Inside Ø	Outside Ø	Min. bending radius	Unit	Price
	mm	mm	mm	m	EURO
12435	10	20	60	3	98.00
12436	10	20	60	6	162.00
12437	13	23	80	3	105.00
12438	13	23	80	6	172.00
12439	16	26	100	3	131.00
12440	16	26	100	6	208.00
12441	19	31	120	3	139.00
12442	19	31	120	6	223.00
12443	25	39	150	3	167.00
12444	25	39	150	6	274.00
12445	38	52	230	1	80.00
12446	38	52	230	3	190.00
12447	50	66	400	1	90.00
12448	50	66	400	3	218.00

### THOMAFLUID®-EPDM Spray Painting Tubing

#### Product specification

- Flexible, light-weighted pressure tubing.
- Good resistance to abrasion.
- Good mechanical material properties.
- As spray painting tubing predestined for spirit, nitrocellulose, chlorinated-rubber, polyurethane and epoxy varnish as well as emulsion paints.

#### Technical specification

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Temperature range:** -40 to +100 °C
- **Electrical characteristics:** antistatic interior and exterior, R <10<sup>8</sup> Ohm
- **Insert:** synthetic fabrics
- **Design:** inside and outside smooth (with longitudinal grooves)
- **Marking:** orange longitudinal stripes



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12770	9	16	10	45	5	136.00
12771	9	16	10	45	10	251.00
12772	9	16	10	45	15	320.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-EPDM Double-Wall Jacket Compressed Air / Brake Tubing

#### Product specification

- Compressed air tubing for flexible connection e.g. to trailer or spring loaded accumulator.

#### Technical specification

- Material:** EPDM (ethylene-propylene-diene rubber)
- Colour:** black
- Temperature range:** -40 to +70 °C
- Bursting pressure:** 50 bar
- Insert:** PVA braiding
- Marking:** DIN 74310, stamped



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
333941	11	18	10	70	5	70.00
333942	11	18	10	70	10	118.00
333943	13	25	10	100	5	80.00
333944	13	25	10	100	10	134.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-High-Therm-EPDM Steam Tubing

#### Application area

- Food technology, soft drink industry, dairy industry, process engineering, operating technology

#### Product specification

- For conveyance of hot fluids (hot water) or steam
- Steam tubing for highest temperatures
- Jacket non-marking, and resistant to lactic acid as well as animal and vegetable greases (exception poultry fat)
- Good resistance to aging and weather
- Excellent elastic behaviour
- Let off steam or drain off water after each use

#### Technical specification

- Material:** EPDM (ethylene-propylene-diene rubber)
- Colour:**  
Liner: white, smooth  
Jacket: blue, perforated, textile imprint
- Temperature range:** up to +164 °C (max.)
- Max. operating pressure:** 7 bar at +164 °C
- Bursting pressure:** 70 bar at +20 °C
- Tubing imprint:** steam tubing, PN 7 bar, max. +164 °C



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	bar	m	EURO
340272	13	23	7	3	120.00
340273	13	23	7	5	180.00
340274	19	31	7	3	152.00
340275	19	31	7	5	224.00
340276	25	37	7	3	194.00
340277	25	37	7	5	290.00
340278	32	46	7	1	80.00
340279	32	46	7	3	216.00
340280	38	54	7	1	102.00
340281	38	54	7	3	270.00
340282	50	66	7	1	126.00
340283	50	66	7	3	334.00

<sup>1</sup> at +164 °C

### THOMAFLUID®-EPDM Steam and Hot Water Tubing

#### Product specification

- High-temperature tubing for hot water and steam.
- Good mechanical properties.
- Best resistance to aging, weather, and ozone.
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils.



**Technical specification**

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Insert:** two steel wire braidings
- **Temperature range:** -40 to +100 °C
- **Saturated steam:** +210 °C
- **Design:** inside and outside smooth (with textile imprint)
- **Marking:** red longitudinal stripe (DIN 2825)

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
49292	13	25	18	130	1	69.00
49293	13	25	18	130	3	167.00
49460	16	28	18	160	1	87.00
49461	16	28	18	160	3	208.00
12399	19	33	18	190	1	59.00
12400	19	33	18	190	3	141.00
12401	25	40	18	250	1	67.00
12402	25	40	18	250	3	162.00
12403	32	48	18	320	1	90.00
12404	32	48	18	320	3	215.00
12405	38	54	18	380	1	121.00
12406	38	54	18	380	3	294.00
12407	50	68	18	500	1	162.00
12408	50	68	18	500	3	392.00

<sup>1</sup> at +20 °C

**THOMAFUID®-EPDM Antista Chemical Pressure Tubing**

**Product specification**

- Robust pressure tubing.
- Antistatic rubber quality.
- Chemical tubing resistant to hot water and antifreeze agents.
- Best resistance to acids, alkalis and polar solvents, except to mineral oils.
- Very good resistance to weather.
- Good resistance to aging, heat and cold.

**Technical specification**

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Shore hardness A:** 70° ±5°
- **Temperature range:** -35 to +95 °C, for a short time +120 °C, steam pressureless
- **Bursting pressure:** 50 bar
- **Insert:** polyester braidings, two stranded copper wires, crossed
- **Leakage resistance:** antistatic interior and exterior, R<10<sup>6</sup> Ohm
- **Marking:** according to EN 12115 (Ohm/T), lilac



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
333693	19	31	16	125	1	132.00
333694	19	31	16	125	3	276.00
333695	19	31	16	125	5	320.00
333696	25	37	16	150	1	152.00
333697	25	37	16	150	3	312.00
333698	25	37	16	150	5	372.00
333699	32	44	16	175	1	170.00
333700	32	44	16	175	3	352.00
333701	32	44	16	175	5	416.00
333702	50	66	16	275	1	262.00
333703	50	66	16	275	3	544.00
333704	50	66	16	275	5	646.00

<sup>1</sup> at +20 °C

**THOMAFUID®-EPDM Antista Chemical Suction and Pressure Tubing**

**Product specification**

- Robust suction and pressure tubing
- Antistatic rubber quality
- Chemical tubing resistant to hot water and antifreeze agents
- Best resistance to acids, alkalis and polar solvents, except to mineral oils
- Very good resistance to weather
- Good Resistance to aging, heat and cold

**Technical specification**

- **Material:** EPDM (ethylene-propylene-diene rubber)
- **Colour:** black
- **Shore hardness A:** 70° ±5°
- **Temperature range:** -35 to +95 °C, for a short time +120 °C; steam pressureless
- **Insert:** polyester braidings, two stranded copper wires, one steel wire spiral
- **Vacuum strength:** 99.9 % at +20 °C
- **Leakage resistance:** antistatic interior and exterior, R<10<sup>6</sup> Ohm
- **Marking:** according to EN 12115 (Ohm/T), lilac



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
333705	19	31	16	900	150	1	170.00
333706	19	31	16	900	150	3	354.00
333707	19	31	16	900	150	5	420.00
333708	32	44	16	800	180	1	182.00
333709	32	44	16	900	180	3	396.00
333710	32	44	16	900	180	5	494.00

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
333711	38	51	16	900	230	1	194.00
333712	38	51	16	900	230	3	436.00
333713	38	51	16	900	230	5	530.00
333714	50	66	16	900	275	1	278.00
333715	50	66	16	900	275	3	578.00
333716	50	66	16	900	275	5	684.00
83145	63	79	16	900	180	1	246.00
83146	63	79	16	900	180	3	456.00
83147	63	79	16	900	180	5	507.00
83148	75	91	16	800	200	1	287.00
83149	75	91	16	800	200	3	507.00
83150	75	91	16	800	200	5	639.00
83151	100	116	16	800	400	1	323.00
83152	100	116	16	800	400	3	635.00
83153	100	116	16	800	400	5	793.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-EPDM High-Pressure Double-Wall Jacket Tubing - one steel wire braiding

#### Product specification

- Special tubing for high-pressure cleaning equipment working with hot water and steam.
- Good elastic behaviour.
- Good resistance to aging, cold, and heat.
- Good resistance to abrasion, highly flame-resistant.
- Liner resistant to hot water and hot steam, glycol brake fluids, many alkalis and acids, as well as polar solvents.
- No resistance to liquids based on mineral oils

#### Technical specification

- **Material:**  
Liner: EPDM (ethylene-propylene-diene rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Insert:** one steel wire braiding
- **Temperature range:** -40 to +155 °C
- **Bursting pressure:** approx. 4fold dynamic operating pressure



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
13081	8	15.5	215	115	5	162.00
13082	8	15.5	215	115	10	297.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-EPDM High-Pressure Double-Wall Jacket Tubing - two steel wire braidings

#### Product specification

- Special tubing for high-pressure cleaning equipment working with hot water and steam.
- Usable for very high operating pressures at high temperatures.
- Good elastic behaviour.
- Good resistance to aging, cold, and heat, good resistance to abrasion.
- Highly flame-resistant.
- Liner resistant to hot water and hot steam, glycol brake fluids, many alkalis and acids, as well as polar solvents.
- No resistance to liquids based on mineral oils

#### Technical specification

- **Material:**  
Liner: EPDM (ethylene-propylene-diene rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -40 to +155 °C
- **Insert:** two steel wire braidings
- **Bursting pressure:** approx. 4fold dynamic operating pressure



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
13083	8	16.5	350	115	3	177.00
13084	8	16.5	350	115	5	190.00
13085	9.5	19.5	350	130	3	136.00
13086	9.5	19.5	350	130	5	202.00

<sup>1</sup> at +20 °C

## EPDM/PP Tubing

### THOMAFLUID®-EPDM/PP Peristaltic Pump Tubing - metric

#### Application area

- Laboratory technology, operating technology, apparatus construction, machine engineering

#### Product specification

- Highest resistance to abrasion
- Extraordinary working lives in peristaltic pumps
- High chemical resistance
- Extremely low permeability to gas
- Excellent elastic behaviour, high temperature resistance
- Very good resistance to ozone, aging, and weather
- Suitable for joining with adhesives and heat-sealing

**Technical specification**

- **Material:** EPDM/PP (thermoplastic elastomer) - NORPRENE®; Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** black
- **Shore hardness A:** 65° ±5°
- **Temperature range:** -45 to +135 °C
- **Density:** 0.97 g/cm³
- **Elongation at break:** 380 %
- **Embrittlement temperature:** -60 °C
- **Tolerance:** DIN ISO 3302-1 E2
- **Comparison of working life in peristaltic pumps:**  
EPDM/PP tubing = 135 h, silicone tubing = 100 h, PVC tubing = 90 h



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
340656	2	4	5	56.00
340657	2	4	15	148.00
340658	3	5	5	62.00
340659	3	5	15	164.00
340660	4	6	5	66.00
340661	4	6	15	176.00
340662	4	7	5	78.00
340663	4	7	15	206.00
340664	5	8	5	88.00
340665	5	8	15	236.00
340666	6	9	5	90.00
340667	6	9	15	238.00
340777	6	10	5	114.00
340778	6	10	15	294.00
340779	7	10	5	98.00
340780	7	10	15	260.00
340781	8	12	5	112.00
340782	8	12	15	312.00
340783	10	14	5	134.00
340784	10	14	15	342.00
340785	12	17	5	192.00
340786	12	17	15	488.00
340787	15	21	5	234.00
340788	15	21	15	564.00
340789	18	21	5	298.00
340790	18	21	15	732.00
340791	20	27	5	342.00
340792	20	27	15	838.00

**THOMAFLUID®-EPDM/PP Peristaltic Pump Tubing - imperial**

**Product specification**

- Robust peristaltic pump and chemical tubing.
- Extremely long service lives compared to common tubing material.
- Mechanically highly loadable.
- Best elastic behaviour (highly flexible).
- Very good abrasion resistance.
- Good thermal resistance.
- Very good resistance to aging, ozone and weather
- Low gas permeability versus rubber tubing like NBR, NR or EPDM.
- Suitable for joining with adhesives and heat-sealing.

**Technical specification**

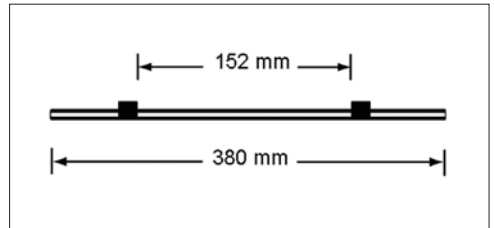
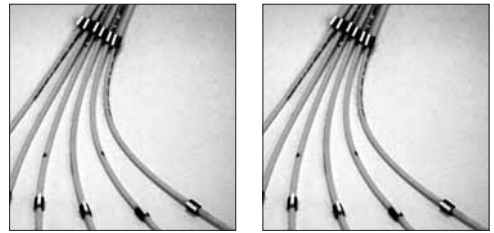
- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** black
- **Shore hardness A:** 61° ±3°
- **Temperature range:** -35 to +135 °C
- **Density:** 0.98 g/cm³
- **Embrittlement temperature:** -60 °C
- **Tensile strength:** 6.9 MPa (ASTM D412)
- **Ultimate elongation:** 375 %
- **Compression set:** 27 % at +70 °C / 22 h
- **Dielectric strength:** 21.1 kV/mm (ASTM D149-97)
- **Water absorption:** 0.30 % at +23 °C / 24 h
- **Tolerance:** DIN ISO 3302-1 E2
- **Comparison of working life in peristaltic pumps:**  
EPDM/PP tubing = 135 h, silicone tubing = 100 h, PVC tubing = 90 h



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Max. op. pressure <sup>2</sup> bar	Unit m	Price EURO
92913	1.6	4.8	2.34	1.45	5	54.00
92914	1.6	4.8	2.34	1.45	10	90.00
92915	1.6	4.8	2.34	1.45	15	116.00
92916	3.2	6.4	1.31	0.83	5	72.00
92917	3.2	6.4	1.31	0.83	10	123.00
92918	3.2	6.4	1.31	0.83	15	156.00
92919	4.8	7.9	0.9	0.55	5	92.00
92920	4.8	7.9	0.9	0.55	10	162.00
92921	4.8	7.9	0.9	0.55	15	205.00
92922	6.4	9.5	0.69	0.41	5	116.00
92923	6.4	9.5	0.69	0.41	10	200.00
92924	6.4	9.5	0.69	0.41	15	254.00
92925	7.9	11.1	0.55	0.34	5	136.00
92926	7.9	11.1	0.55	0.34	10	233.00
92927	7.9	11.1	0.55	0.34	15	294.00
92928	9.5	12.7	0.48	0.28	5	162.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Max. op. pressure <sup>2</sup> bar	Unit m	Price EURO
92929	9.5	12.7	0.48	0.28	10	225.00
92930	9.5	12.7	0.48	0.28	15	351.00
92931	9.5	14.3	0.69	0.41	5	254.00
92932	9.5	14.3	0.69	0.41	10	440.00
92933	9.5	14.3	0.69	0.41	15	558.00
92934	11.1	14.3	0.41	0.28	5	179.00
92935	11.1	14.3	0.41	0.28	10	310.00
92936	11.1	14.3	0.41	0.28	15	394.00
92937	12.7	15.9	0.41	0.21	5	200.00
92938	12.7	15.9	0.41	0.21	10	348.00
92939	12.7	15.9	0.41	0.21	15	440.00
92940	15.9	20.6	0.48	0.28	5	384.00
92941	15.9	20.6	0.48	0.28	10	645.00
92942	15.9	20.6	0.48	0.28	15	819.00

<sup>1</sup> at +20 °C <sup>2</sup> at +80 °C



### THOMAFLUID®-EPDM/PP Pump Tubing with 2 Stoppers

#### Application area

- The ideal tubing for pharmaceutical and medical applications as well as the food application areas.
- Recommendable for cell cultures and tissues.
- Ideal for the production filtration, fermentation and bioreactor process lines.

#### Product specification

- Conveying and pump tubing for continuous operation
- Highest abrasion resistance
- Very long working life
- Non-toxic, non-hemolytic
- Free of extractable constituents
- Chemically resistant
- Not permeable to light and UV-radiation
- Extremely low permeability to gas
- Can be autoclaved several times
- Heat-sealing and bonding properties
- Repeatedly usable for CIP- and SIP-processes
- Service life: 30 times longer than comparable silicone tubes
- Total length: approx. 38 cm
- Distance between stoppers: 15.2 cm

#### Technical specification

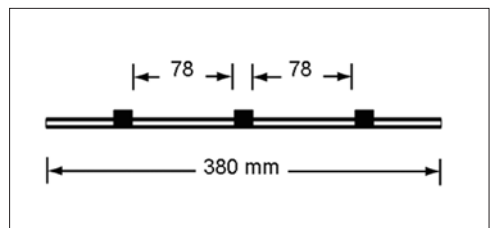
- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** yellowish
- **Shore hardness A:** 64°
- **Temperature range:** -60 to +135 °C
- **Density:** 0.97 g/cm<sup>3</sup>
- **Taste:** low
- **Toxicity:** non-toxic
- **Embrittlement temperature:** -75 °C
- **Sterilization:** autoclavable (+121 °C); steam (121 °C, 30 minutes, 1 bar); gas (ethylene oxide); gamma-rays (up to 2.5 mrad)
- **Regulations:** USP Class VI; FDA 21 CFR §177.2600 and NSF listed (standard 51)

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
338733	0.25	2.07	0.91	orange/blue	3	58.00
338734	0.38	2.18	0.9	orange/green	3	58.00
338735	0.51	2.21	0.85	orange/yellow	3	58.00
338736	0.64	2.44	0.9	orange/white	3	58.00
338737	0.76	2.36	0.8	black	3	58.00
338738	0.89	2.49	0.8	orange	3	58.00
339251	1.02	2.72	0.85	white	3	58.00
339252	1.14	2.84	0.85	red	3	58.00
339253	1.3	2.8	0.75	grey	3	58.00
339254	1.42	3.1	0.84	yellow	3	58.00
339255	1.52	3.02	0.75	yellow/blue	3	58.00
339256	1.65	3.25	0.8	blue	3	58.00
339257	1.85	3.55	0.85	green	3	58.00
339258	2.06	3.66	0.8	violet	3	58.00
339259	2.29	3.89	0.8	violet/black	3	58.00
339260	2.54	4.24	0.85	violet/orange	3	58.00
339261	2.79	4.59	0.9	violet/white	3	58.00

### THOMAFLUID®-EPDM/PP Pump Tubing with 3 Stoppers

#### Application area

- The ideal tubing for pharmaceutical and medical applications as well as the food application areas.
- Recommendable for cell cultures and tissues.
- Ideal for the production filtration, fermentation, bioreactor process lines.



### Product specification

- Conveying and pump tubing for continuous operation
- Highest abrasion resistance, very long working life
- Non-toxic, non-hemolytic, chemically resistant
- Free of extractable constituents
- Not permeable to light and UV-radiation
- Extremely low permeability to gas
- Can be autoclaved several times
- Heat-sealing and bonding properties
- Repeatedly usable for CIP- and SIP-processes
- Service life: 30 times longer than comparable silicone tubes
- Total length: approx. 38 cm
- Distance between stoppers: 7.8 cm

### Technical specification

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** yellowish
- **Shore hardness A:** 64°
- **Temperature range:** -60 to +135 °C
- **Density:** 0.97 g/cm<sup>3</sup>
- **Taste:** low
- **Toxicity:** non-toxic
- **Embrittlement temperature:** -75 °C
- **Sterilization:** autoclavable (+121 °C); steam (121 °C, 30 minutes, 1 bar); gas (ethylene oxide); gamma-rays (up to 2.5 mrad)
- **Regulations:** USP Class VI; FDA 21 CFR §177.2600 and NSF listed (standard 51)

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
339262	0.25	2.07	0.91	orange/blau	3	66.00
339263	0.38	2.18	0.9	orange/green	3	66.00
339264	0.51	2.21	0.85	orange/ yellow	3	66.00
339265	0.64	2.44	0.9	orange/white	3	66.00
339266	0.76	2.36	0.8	black	3	66.00
339267	0.89	2.49	0.8	orange	3	66.00
339268	1.02	2.72	0.85	white	3	66.00
339269	1.14	2.84	0.85	red	3	66.00
339270	1.3	2.8	0.75	grey	3	66.00
339271	1.42	3.1	0.84	yellow	3	66.00
339272	1.52	3.02	0.75	yellow/blue	3	66.00
339273	1.65	3.25	0.8	blue	3	66.00
339274	1.85	3.55	0.85	green	3	66.00
339275	2.06	3.66	0.8	violet	3	66.00
339276	2.29	3.89	0.8	violet/black	3	66.00
339277	2.54	4.24	0.85	violet/orange	3	66.00
339278	2.79	4.59	0.9	violet/white	3	66.00

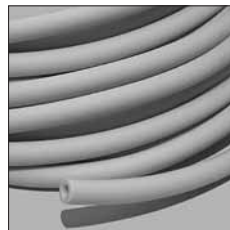
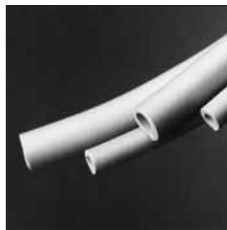
### THOMAFLUID®-EPDM/PP Micro Pump Tubing

#### Product specification

- Conveying and pump tubing for continuous operation
- Highest resistance to abrasion
- Free from extractable constituents
- Chemically resistant
- Extremely low permeability to gas
- Repeatedly autoclavable
- Heat-sealing and bonding properties
- Working life: 30 times longer than comparable silicone tubes

### Technical specification

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** yellowish
- **Shore hardness A:** 64°
- **Temperature range:** -50 to +150 °C
- **Density:** 0.97 g/cm<sup>3</sup>
- **Embrittlement temperature:** -75 °C
- **Sterilization:** autoclavable (+136 °C)
- **Regulations:** according to FDA § 177.2800, USP XXI, DAB 10, BfR XV



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
339979	0.25	2.07	0.91	3	86.00
339980	0.38	2.18	0.9	3	86.00
339981	0.51	2.21	0.85	3	86.00
339982	0.64	2.44	0.9	3	86.00
339983	0.76	2.36	0.8	3	86.00
339984	0.89	2.49	0.8	3	86.00
339985	1.02	2.72	0.85	3	86.00
339986	1.14	2.84	0.85	3	86.00
339987	1.3	2.8	0.75	3	86.00
339988	1.42	3.1	0.84	3	86.00
339989	1.52	3.02	0.75	3	86.00
339990	1.65	3.25	0.8	3	86.00
339991	1.85	3.55	0.85	3	86.00
339992	2.06	3.66	0.8	3	86.00
339993	2.29	3.89	0.8	3	86.00
339994	2.54	4.24	0.85	3	86.00
339995	2.79	4.59	0.9	3	86.00

### THOMAFLUID®-EPDM/PP Pump and Chemical Tubing

#### Product specification

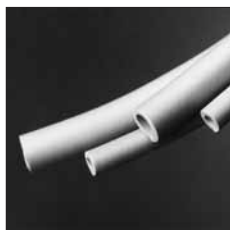
- Conveying and pump tubing for continuous operation
- Highest resistance to abrasion
- Free from extractable constituents
- Chemically resistant
- Extremely low permeability to gas
- Repeatedly autoclavable
- Heat-sealing and bonding properties
- Service life: 30 times longer than comparable silicone tubes

#### Technical specification

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** natural-yellow
- **Shore hardness A:** 68° ±4°
- **Temperature range:** -40 to +150 °C



- **Density:** 0.92 g/cm<sup>3</sup>
- **Embrittlement temperature:** -65 °C
- **Sterilization:** autoclavable (+136 °C); gamma-rays (up to 2.5 mrad)
- **Regulations:** FDA 21 CFR §177.2600; NSF 51 and BfR XV



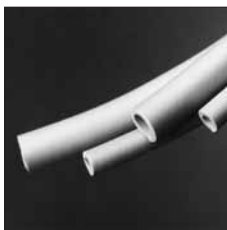
Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
333647	1	3	5	72.00
333648	1	3	15	178.00
333649	1	4	5	72.00
333650	1	4	15	178.00
333651	2	4	5	72.00
333652	2	4	15	178.00
333653	2	6	5	76.00
333654	2	6	15	186.00
10421	2.4	5.6	5	82.00
10422	2.4	5.6	15	197.00
10423	3	5	5	82.00
10424	3	5	15	197.00
333655	3	6	5	88.00
333656	3	6	15	211.00
333657	3	7	5	88.00
333658	3	7	15	211.00
10425	3.2	6.4	5	88.00
10426	3.2	6.4	15	211.00
10427	4	6	5	88.00
10428	4	6	15	211.00
10429	4	8	5	105.00
10430	4	8	15	250.00
10431	4.8	7.9	5	105.00
10432	4.8	7.9	15	250.00
333659	5	8	5	105.00
333660	5	8	15	250.00
333661	5	9	5	105.00
333662	5	9	15	250.00
10433	5.2	8.3	5	105.00
10434	5.2	8.3	15	250.00
333663	6	8	5	105.00
333664	6	8	15	250.00
10435	6	9	5	107.00
10436	6	9	15	250.00
10439	6	10	5	126.00
10440	6	10	15	302.00
10437	6.4	9.5	5	118.00
10438	6.4	9.5	15	283.00
333665	7	9	5	126.00
333666	7	9	15	302.00
10441	7	10	5	126.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
10442	7	10	15	302.00
333667	7	11	5	145.00
333668	7	11	15	356.00
333669	8	10	5	138.00
333670	8	10	15	338.00
10443	8	11.1	5	126.00
10444	8	11.1	15	302.00
10445	8	12	5	139.00
10446	8	12	15	332.00
333671	9	12	5	145.00
333672	9	12	15	365.00
333673	9	13	5	145.00
333674	9	13	15	365.00
333675	10	12	5	145.00
333676	10	12	15	365.00
10447	10	14	5	153.00
10448	10	14	15	367.00
333677	12	14	5	153.00
333678	12	14	15	367.00
333679	12	16	5	264.00
333680	12	16	15	594.00
333681	14	16	5	264.00
333682	14	16	15	594.00
333683	14	18	5	280.00
333684	14	18	15	644.00
333685	16	18	5	280.00
333686	16	18	15	644.00
333687	16	20	5	298.00
333688	16	20	15	693.00
333689	18	22	5	316.00
333690	18	22	15	735.00
333691	18	26	5	584.00
333692	18	26	15	1,314.00

### THOMAFLUID®-EPDM/PP Pressure Chemical Tubing - TPE

#### Product specification

- Conveying and pressure tubing for continuous operation, with fabric insert
- Heat-sealing and bonding properties
- Highest chemical resistance to most organic and inorganic media
- Good temperature resistance, high abrasion resistance
- Repeatedly autoclavable
- Good cold resistance, resistance to ozone, aging and weather
- Extremely low permeability to gas
- Physiologically safe, free from pyrogenes, non-toxic
- Free from extractable constituents



**Technical specification**

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** yellowish
- **Shore hardness A:** 73° (DIN 53505)
- **Temperature range:** -50 to +140 °C
- **Density:** 0.97 g/cm<sup>3</sup> (DIN 53479 A)
- **Embrittlement temperature:** -75 °C
- **Insert:** polyester braiding as pressure support
- **Elongation at break:** 400 % (DIN 53504-S1)
- **Tolerance:** DIN ISO 3302-1 E2
- **Sterilization:** autoclavable (+136 °C)
- **Regulations:** meets the recommendations of the BfR as well as the FDA and USP guidelines

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
190821	3	8	60	5	93.00
190831	3	8	60	15	236.00
190841	4	9	60	5	113.00
190851	4	9	60	15	254.00
190861	5	10	60	5	121.00
190871	5	10	60	15	294.00
190881	6	11.5	60	5	141.00
190891	6	11.5	60	15	335.00
190901	6	12	60	5	156.00
190911	6	12	60	15	376.00
190921	6	12.5	60	5	162.00
190931	6	12.5	60	15	381.00
190941	7	13	60	5	162.00
190951	7	13	60	15	381.00
190961	8	14.5	60	5	190.00
190971	8	14.5	60	15	443.00
190981	9.5	16	60	5	218.00
190991	9.5	16	60	15	504.00
191001	10	18	40	5	218.00
191011	10	18	40	15	504.00
191021	12	19	40	5	218.00
191031	12	19	40	15	504.00
191061	12.5	19.5	40	5	238.00
191071	12.5	19.5	40	15	553.00
191081	14	23	40	5	300.00
191091	14	23	40	15	698.00
191101	15	24	40	10	635.00
191111	15	24	40	25	1,225.00
191121	16	25.4	40	10	711.00
191131	16	25.4	40	25	1,378.00
191141	18	29.5	40	10	980.00
191151	18	29.5	40	25	1,908.00
191161	19	30.5	40	10	1,021.00
191171	19	30.5	40	25	1,982.00
191181	20	31.5	40	10	1,059.00
191191	20	31.5	40	25	2,058.00
191201	22	33.5	40	10	1,151.00
191211	22	33.5	40	25	2,237.00
191221	24	35.5	40	10	1,225.00
191231	24	35.5	40	25	3,421.00

<sup>1</sup> at +20 °C

**THOMAFUID®-High-Tech-EPDM/PP Pharmaceutical Tubing**

**Application area**

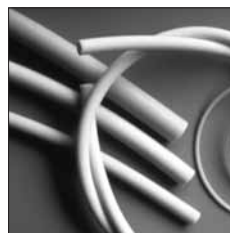
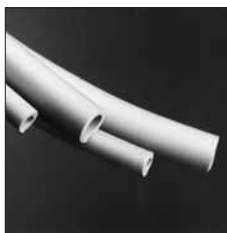
- Conveying of sensible and highly purified fluids and of gases
- High performance pump tubing for peristaltic

**Product specification**

- Flexible and elastic high-tech tubing of highest resistance to bending and abrasion, chemically resistant, free from extractable constituents, complying to the USP Class IV.
- Absolutely biocompatible, neither cytotoxic nor hemolytical, approved for direct contact with food and for use in equipments for food production according to the FDA and NSF guidelines 21 CFR 177.2600
- Extremely low permeability to gas, not permeable to UV and daylight, repeatedly autoclavable, and chemically sterilizable
- Heat-sealing and bonding properties, up to 30 times longer service lives than comparable silicone products

**Technical specification**

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** natural-yellow
- **Shore hardness A:** 68°
- **Temperature range:** -40 to +135 °C
- **Density:** 0.92 g/cm<sup>3</sup>
- **Embrittlement temperature:** -70 °C
- **Tensile strength:** 2.4 MPa (ASTM D412)
- **Tensile strength at break:** 5.9 MPa (ASTM D412)
- **Elongation at break:** 480 %
- **Permeability:** extremely low
- **Sterilization:** autoclavable (+136 °C); gamma-rays (up to 2.5 mrad)
- **Regulations:** GMP-special treatment, meeting the FDA, USP, BfR, and DAB-standards



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
14806	0.5	3.7	1.6	3	66.00
84627	0.5	3.7	1.6	7.5	137.00
14807	0.8	4	1.6	3	79.00
84628	0.8	4	1.6	7.5	163.00
14808	1.6	4.8	1.6	3	96.00
84629	1.6	4.8	1.6	7.5	201.00
14809	1.6	6.4	2.4	3	110.00
14810	1.6	6.4	2.4	7.5	218.00
84630	3.2	6.4	1.6	3	101.00
84631	3.2	6.4	1.6	7.5	209.00
14811	3.2	7.9	2.4	3	113.00
14812	3.2	7.9	2.4	7.5	226.00
14839	3.2	9.5	3.2	3	127.00
14840	3.2	9.5	3.2	7.5	255.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
84632	4.8	7.9	1.6	3	102.00
84633	4.8	7.9	1.6	7.5	211.00
14813	4.8	9.5	2.4	3	116.00
14814	4.8	9.5	2.4	7.5	233.00
84634	6.4	9.5	1.6	3	124.00
84635	6.4	9.5	1.6	7.5	257.00
14815	6.4	11.1	2.4	3	140.00
14816	6.4	11.1	2.4	7.5	280.00
84636	6.4	12.7	3.2	3	177.00
84637	6.4	12.7	3.2	7.5	354.00
84638	7.9	11.1	1.6	3	129.00
84639	7.9	11.1	1.6	7.5	268.00
14817	7.9	12.7	2.4	3	147.00
14818	7.9	12.7	2.4	7.5	294.00
14819	7.9	15.9	4	1	145.00
14820	7.9	15.9	4	3	362.00
14821	9.5	14.3	2.4	1	89.00
14822	9.5	14.3	2.4	3	218.00
84640	9.5	15.9	3.2	1	104.00
84641	9.5	15.9	3.2	3	260.00
14823	9.5	19	4.8	1	145.00
14824	9.5	19	4.8	3	362.00
14827	12	20	4	1	174.00
14828	12	20	4	3	435.00
84642	12.7	19	3.2	1	121.00
84643	12.7	19	3.2	3	301.00
14825	12.7	22.2	4.8	1	174.00
14826	12.7	22.2	4.8	3	434.00
84644	15.9	22.2	3.2	1	135.00
84645	15.9	22.2	3.2	3	340.00
14829	16	24	4	1	163.00
14830	16	24	4	3	391.00
14831	15.9	25.4	4.8	1	158.00
14832	15.9	25.4	4.8	3	378.00
84646	19	25.4	3.2	1	158.00
84647	19	25.4	3.2	3	378.00
14833	19	28.6	4.8	1	191.00
14834	19	28.6	4.8	3	458.00
14835	25.4	31.8	3.2	1	187.00
14836	25.4	31.8	3.2	3	436.00
14837	25.4	34.1	4.8	1	195.00
14838	25.4	34.1	4.8	3	558.00

**THOMAFLUID®-High-Med-TPE-S Tubing for Medical Engineering and Pharmaceutical Technology**



**Application area**

- Communication technology, medical devices, clinical chemistry, laboratory technology, pharmaceutical technology, pharmaceutical production

**Product specification**

- Very good compression set.
- Sterilizable.
- Autoclavable.
- Heat-sealable.
- Good resistance to acids and alkalis, but not resistant to fats, oils and highly concentrated alcohols.
- The medical compound is tested according to the named medical base certifications and the Drug Master File (DMF).
- Free of plasticizers.
- Absolutely free of latex and phthalates.
- Absolutely resistant to weather and aging.
- Outstanding elastic properties.
- Pleasant feel and anti-slip properties.
- UV-resistant.

**Technical specification**

- **Material:** TPE-S (styrene block copolymer)
- **Colour:** translucent
- **Shore hardness A:** 60° (DIN 53505, ISO 868)
- **Temperature range:** -40 to +120 °C
- **Sterilization:** autoclavable; hot air (+134 °C); gas (ethylene oxide); gamma-rays (2 x kGy)
- **Density:** 0.89 g/cm³ (DIN ISO 1183-1:2004)
- **Tearing strength:** 11.2 N/mm² (DIN 53504, ISO 37)
- **Tear propagation resistance:** 18.1 N/mm² (DIN ISO 34-1 method B)
- **Elongation at break:** 759.0 % (DIN 53504, ISO 37)
- **Compression set:** at +70 °C / 22h: 32.8 % (ISO 815) at +100 °C / 22h: 49.4 % (ISO 815)
- **Regulations:** Drug Master-File and approval, USP Class IV and 6.6.1, ISO 10993-5, ISO 10993-10 and -11

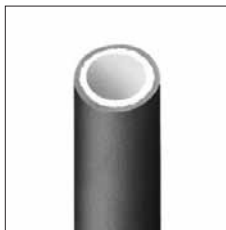
Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
351064	0.5	1.5	5	74.00
351065	0.5	1.5	15	168.00
351066	0.5	2	5	76.00
351067	0.5	2	15	170.00
351068	0.8	4	5	98.00
351069	0.8	4	15	232.00
351070	1	3	5	78.00
351071	1	3	15	174.00
351072	1	4	5	94.00
351073	1	4	15	220.00
351074	1.6	3.2	5	80.00
351075	1.6	3.2	15	178.00
351076	1.6	4.8	5	130.00
351077	1.6	4.8	15	304.00
351078	2	4	5	74.00
351079	2	4	15	176.00
351080	2	6	5	136.00
351081	2	6	15	340.00
351082	2.4	5.6	5	126.00
351083	2.4	5.6	15	322.00
351084	3	5	5	88.00
351085	3	5	15	208.00
351086	3	6	5	124.00
351087	3	6	15	290.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
351088	3	7	5	136.00
351089	3	7	15	330.00
351090	3.2	6.4	5	110.00
351091	3.2	6.4	15	264.00
351092	4	6	5	96.00
351093	4	6	15	248.00
351094	4	8	5	136.00
351095	4	8	15	304.00
351096	4.8	7.9	5	130.00
351097	4.8	7.9	15	300.00
351098	5	8	5	124.00
351099	5	8	15	292.00
351100	5	9	5	158.00
351101	5	9	15	354.00
351102	6	8	5	106.00
351103	6	8	15	246.00
351104	6	9	5	146.00
351105	6	9	15	332.00
351106	6	10	5	176.00
351107	6	10	15	398.00
351108	6.4	9.5	5	144.00
351109	6.4	9.5	15	322.00
351110	7	9	5	126.00
351111	7	9	15	308.00
351112	7	10	5	144.00
351113	7	10	15	326.00
351114	7	11	5	230.00
351115	7	11	15	544.00
351116	8	10	5	138.00
351117	8	10	15	312.00
351118	8	11.1	5	176.00
351119	8	11.1	15	394.00
351120	8	12	5	198.00
351121	8	12	15	464.00
351122	9	12	5	200.00
351123	9	12	15	468.00
351124	9	13	5	258.00
351125	9	13	15	566.00
351126	9.5	12.7	5	224.00
351127	9.5	12.7	15	526.00
351128	9.5	14.3	5	322.00
351129	9.5	14.3	15	724.00
351130	10	12	5	272.00
351131	10	12	15	618.00
351152	10	14	5	295.00
351153	10	14	15	756.00

- Liner is physiologically absolutely safe, it does not contain any extractable constituents.
- Odourless and tasteless.
- Steam strippable against bacteria up to max. +120 °C for a short time or washable with hot water and ordinary household cleaners.
- High abrasion resistance.
- Resistant to ozone and UV-radiation.

**Technical specification**

- **Material:** TPE (thermoplastic elastomer)
- **Colour:**  
Liner: white, smooth  
Jacket: blue, smooth
- **Temperature range:** -15 to +95 °C, for a short period +120 °C
- **Max. operating pressure:** 20 bar
- **Bursting pressure:** 60 bar
- **Regulations:** EG 10/2011
- **Tubing imprint:** REG 10/2011 - SIM. A-B-C-D1-D2



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340028	10	17	20	3	72.00
340029	10	17	20	5	106.00
340030	13	20	20	3	104.00
340031	13	20	20	5	156.00
340032	16	24	20	3	112.00
340033	16	24	20	5	166.00
340034	19	27	20	3	130.00
340035	19	27	20	5	196.00
340036	25	34	20	1	86.00
340037	25	34	20	3	222.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-EPDM/PP Ventilation Tubing**

**Application area**

- Suitable for hot air, smoke, gas, chemical fumes and ventilation of motors
- Not suitable for solid matters



**THOMAFLUID®-High-Tech-TPE Food Tubing**

**Application area**

- Dairy industry, mineral well production, beer filling, soft drink production, dairies, wine filling

**Product specification**

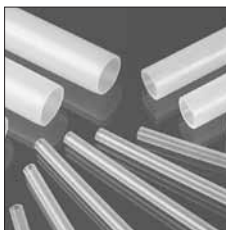
- Resistant to animal and vegetable oils and fats.
- Smooth inner surface ensures reliable emptying of residual charge and sure cleaning at change of charge.

### Technical specification

- **Material:** EPDM/PP (thermoplastic elastomer); Compound of EPDM and PP, as well as stabilizing additives; EPDM (ethylene-propylene-diene rubber); PP (polypropylene)
- **Colour:** black
- **Temperature range:** -40 to +120 °C, for a short time +150 °C
- **Insert:** with embedded steel wire spiral
- **Bending radius:** 1 x inside diameter

Item	Inside Ø mm	Min. bending radius mm	Unit m	Price EURO
303250	50	60	5	226.00
303251	50	60	10	316.00
303252	60	70	5	241.00
303253	60	70	10	337.00
303254	75	85	5	256.00
303255	75	85	10	358.00
303256	80	90	5	286.00
303257	80	90	10	399.00
303258	90	100	5	296.00
303259	90	100	10	414.00
303260	100	110	5	312.00
303261	100	110	10	436.00
303262	110	120	3	224.00
303263	110	120	5	298.00
303264	127	140	3	246.00
303265	127	140	5	328.00
303266	152	170	3	286.00
303267	152	170	5	381.00

- **Temperature range:** -20 to +80 °C
- **Density:** 0.931 g/cm<sup>3</sup> (DIN 53479)
- **Elongation at break:** 700 % (DIN 53455)
- **Dielectric constant:** 2.6 at 10<sup>6</sup> Hz (DIN 53483)
- **Permeability to steam:** 4.5 g / (m<sup>2</sup> x d) (DIN 53122)
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
332404	0.5	1.5	20	10	114.00
332405	0.5	1.5	20	20	198.00
332406	0.5	1.5	20	40	352.00
332407	0.5	2	30	10	114.00
332408	0.5	2	30	20	198.00
332409	0.5	2	30	40	352.00
332410	1	3	20	10	114.00
332411	1	3	20	20	198.00
332412	1	3	20	40	352.00
332413	1	4	30	10	126.00
332414	1	4	30	20	218.00
332415	1	4	30	40	388.00
332416	2	4	10	10	118.00
332417	2	4	10	20	206.00
332418	2	4	10	40	366.00
332419	3	5	7	10	132.00
332420	3	5	7	20	226.00
332421	3	5	7	40	402.00
19211	3	6	12.5	10	102.00
19212	3	6	12.5	20	184.00
19213	3	6	12.5	40	332.00
19214	4	6	8	10	102.00
19215	4	6	8	20	184.00
19216	4	6	8	40	332.00
19217	4	8	12.5	10	118.00
19218	4	8	12.5	20	212.00
19219	4	8	12.5	40	382.00
19220	4	10	12.5	10	136.00
19221	4	10	12.5	20	244.00
19222	4	10	12.5	40	440.00
19223	5	8	8.5	10	112.00
19224	5	8	8.5	20	202.00
19225	5	8	8.5	40	364.00
19226	5	12	12.5	10	170.00
19227	5	12	12.5	20	306.00
19228	5	12	12.5	40	552.00
19229	6	8	6.5	10	128.00
19230	6	8	6.5	20	234.00
19231	6	8	6.5	40	418.00

## EVA Tubing

### THOMAFLUID®-EVA Chemical Tubing

#### Product specification

- Low density.
- Very good abrasion resistance.
- Outstanding mechanical stability.
- Antiadhesive surface (absolutely smooth-walled).
- Very good resistance to aging and weather.
- Best dielectric properties.
- Hardly inflammable.
- Good impact strength, even at low temperatures.
- Tasteless and odourless.
- Flexible and resistant material.
- Lowest permeability to steam and gas, thus best gas-tightness (for use as CO<sub>2</sub> pipeline in dispensing equipment). EVA ideally combines the properties of PE of low density with those of soft PVC.
- The material combination shows excellent resistance even to critical media, e.g. formic acid (85 %), ethanol, ethylene diamine, ethylene glycol, benzyl alcohol, butanol, cyclohexanol, acetic acid, hydrofluoric acid, formaldehyde, isopropanol, caustic potash, perchloric acid (70 %), phosphoric acid (95 %), propionic acid, pyridine, nitric acid (30 %), hydrochloric acid (conc.), sulphuric acid (70 %), hydrogen peroxide (100 %) etc.

#### Technical specification

- **Material:** EVA (ethylene vinyl acetate copolymer)
- **Colour:** translucent
- **Shore hardness A:** 84° ±5° (DIN 53505)

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
332401	6	10	7.5	10	152.00
332402	6	10	7.5	20	226.00
332403	6	10	7.5	40	408.00
19232	6	12	12.5	10	162.00
19233	6	12	12.5	20	292.00
19234	6	12	12.5	40	524.00
19235	7	10	6.5	10	118.00
19236	7	10	6.5	20	212.00
19237	7	10	6.5	40	382.00
19238	7	14	12.5	10	178.00
19239	7	14	12.5	20	322.00
19240	7	14	12.5	40	580.00
19241	8	10	4	10	112.00
19242	8	10	4	20	202.00
19243	8	10	4	40	346.00
19244	8	12	7.5	10	140.00
19245	8	12	7.5	20	252.00
19246	8	12	7.5	40	454.00
19247	8	14	10.5	10	162.00
19248	8	14	10.5	20	292.00
19249	8	14	10.5	40	522.00
19250	9	12	5	10	152.00
19251	9	12	5	20	226.00
19252	9	12	5	40	408.00
19253	9	14	9	10	146.00
19254	9	14	9	20	262.00
19255	9	14	9	40	468.00
19256	9	16	10.5	10	212.00
19257	9	16	10.5	20	354.00
19258	9	16	10.5	40	638.00
19259	10	14	6	10	132.00
19260	10	14	6	20	236.00
19261	10	14	6	40	422.00
19262	10	16	8.5	10	188.00
19263	10	16	8.5	20	320.00
19264	10	16	8.5	40	558.00
19265	12	16	5.5	10	170.00
19266	12	16	5.5	20	322.00
19267	12	16	5.5	40	550.00
19268	12	18	7.5	10	222.00
19269	12	18	7.5	20	370.00
19270	12	18	7.5	40	668.00
19271	12	20	9.5	10	296.00
19272	12	20	9.5	20	494.00
19273	12	20	9.5	40	892.00
19274	13	18	6	10	190.00
19275	13	18	6	20	318.00
19276	13	18	6	40	576.00
19277	14	18	4.5	10	168.00
19278	14	18	4.5	20	288.00
19279	14	18	4.5	40	502.00
19280	15	20	6	10	212.00
19281	15	20	6	20	354.00
19282	15	20	6	40	638.00
19283	16	20	5	10	192.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
19284	16	20	5	20	322.00
19285	16	20	5	40	580.00
19286	18	22	4	10	196.00
19287	18	22	4	20	354.00
19288	18	22	4	40	638.00

<sup>1</sup> at +20 °C

## FPM Tubing

### THOMAFLUID®-FPM Tubing

#### Application area

- Analytical technology, medical engineering, chemical industry, biotechnology, laboratory technology, process engineering

#### General product specification

- Extraordinary chemical resistance to hydrocarbons, mineral, vegetable, and animal oils, aromatic and chlorine containing solvents, many acids, alkalis, and oxidizing agents. Unstable to polar solvents and certain lyes.
- Conveying tubing made of high-quality mixed polymers of fluorinated hydrocarbons
- Very good chemical resistance, very good heat resistance
- Very good resistance to effects of ozone, oxygen, aging, and weather
- Flame-resistant, smooth surface, low abrasion
- Highest mechanical strength
- Maximum dimensional stability

#### General technical specification

- **Material:** FPM (fluorinated rubber)
- **Colour:** black
- **Temperature range:** -20 to +200 °C, for a short period +250 °C
- **Permeability:** extremely low, nearly gas-tight
- **Dielectric constant:** 15 at 50 Hz
- **Volume Resistivity:**  $2 \times 10^{13}$  Ohm x cm
- **Abrasion:** 190 mm<sup>3</sup>
- **Tolerances:** DIN ISO 3302-1 E2
- **Flammability rating:** UL 94 V-0

### THOMAFLUID®-FPM Micro-Spaghetti Tubing for Analytical Technology



#### Technical specification

- **Material:** FPM (fluorinated rubber)
- **Shore hardness A:** 64° ±3°
- **Tolerance:** DIN ISO 3302-1 E2

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
302630	0.51	2.33	0.91	1	66.00
302631	0.51	2.33	0.91	5	280.00
302632	0.51	2.33	0.91	10	460.00
302633	0.64	2.46	0.91	1	68.00
302634	0.64	2.46	0.91	5	292.00
302635	0.64	2.46	0.91	10	478.00
302636	0.76	2.44	0.84	1	74.00
302637	0.76	2.44	0.84	5	310.00
302638	0.76	2.44	0.84	10	508.00
302639	0.89	2.57	0.84	1	80.00
302640	0.89	2.57	0.84	5	334.00
302641	0.89	2.57	0.84	10	548.00
302642	1.02	2.7	0.84	1	84.00
302643	1.02	2.7	0.84	5	352.00
302644	1.02	2.7	0.84	10	576.00
302645	1.14	2.82	0.84	1	84.00
302646	1.14	2.82	0.84	5	352.00
302647	1.14	2.82	0.84	10	576.00
302648	1.3	2.98	0.84	1	84.00
302649	1.3	2.98	0.84	5	352.00
302650	1.3	2.98	0.84	10	576.00
302651	1.42	3.1	0.84	1	88.00
302652	1.42	3.1	0.84	5	372.00
302653	1.42	3.1	0.84	10	606.00
302654	1.52	3.2	0.84	1	88.00
302655	1.52	3.2	0.84	5	372.00
302656	1.52	3.2	0.84	10	606.00
302657	1.65	3.33	0.84	1	88.00
302658	1.65	3.33	0.84	5	372.00
302659	1.65	3.33	0.84	10	606.00
302660	1.85	3.53	0.84	1	96.00
302661	1.85	3.53	0.84	5	396.00
302662	1.85	3.53	0.84	10	616.00
302663	2.06	3.74	0.84	1	102.00
302664	2.06	3.74	0.84	5	414.00
302665	2.06	3.74	0.84	10	644.00
302666	2.29	3.97	0.84	1	110.00
302667	2.29	3.97	0.84	5	448.00
302668	2.29	3.97	0.84	10	696.00
302669	2.54	4.22	0.84	1	116.00
302670	2.54	4.22	0.84	5	474.00
302671	2.54	4.22	0.84	10	738.00
302672	2.79	4.47	0.84	1	126.00
302673	2.79	4.47	0.84	5	518.00
302674	2.79	4.47	0.84	10	806.00



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
28813	0.5	1	0.25	3	159.00
28814	0.5	1	0.25	5	238.00
28815	0.5	1	0.25	10	366.00
28819	0.8	2	0.6	3	116.00
28820	0.8	2	0.6	5	174.00
28821	0.8	2	0.6	10	264.00
28822	1	1.5	0.25	3	121.00
28823	1	1.5	0.25	5	162.00
28824	1	1.5	0.25	10	238.00
28825	1	1.8	0.4	3	126.00
28826	1	1.8	0.4	5	192.00
28827	1	1.8	0.4	10	289.00
40652	1.5	3	0.75	3	133.00
40653	1.5	3	0.75	5	200.00
40654	1.5	3	0.75	10	305.00
28831	1.6	3.1	0.75	3	133.00
28832	1.6	3.1	0.75	5	200.00
28833	1.6	3.1	0.75	10	305.00
40655	1.8	3.2	0.7	3	113.00
40905	1.8	3.2	0.7	5	169.00
40906	1.8	3.2	0.7	10	261.00
40907	2	3	0.5	3	215.00
40908	2	3	0.5	5	323.00
40909	2	3	0.5	10	443.00
28834	2.2	2.7	0.25	3	185.00
28835	2.2	2.7	0.25	5	277.00
28836	2.2	2.7	0.25	10	394.00
40910	2.2	3.7	0.75	3	144.00
40911	2.2	3.7	0.75	5	215.00
40912	2.2	3.7	0.75	10	330.00

**THOMAFLUID®-FPM Micro-Spaghetti Chemical Tubing - multi-lumen**

**THOMAFLUID®-FPM Micro-Spaghetti Chemical Tubing**

**Technical specification**

- **Material:** FPM (fluorinated rubber)
- **Shore hardness A:** 64° ±3°
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Number of lumens	Unit m	Price EURO
28843	1.5	2.5	0.5	4	1	141.00
28844	1.5	2.5	0.5	4	2	225.00
28845	1.5	2.5	0.5	4	3	310.00
28846	2.2	3.75	0.78	2	1	126.00
28847	2.2	3.75	0.78	2	2	202.00
28848	2.2	3.75	0.78	2	3	277.00

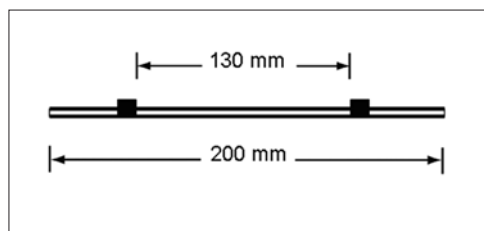
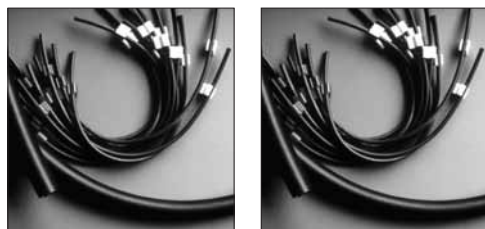
### THOMAFLUID®-High-Tech-FPM Pump Tubing Fitted with 2 Stoppers

#### Product specification

- Fitted with two involved stoppers each for mounting in tubing cassettes; colour-coded for clearly organized use.

#### Technical specification

- Material:** FPM (fluorinated rubber)
- Shore hardness A:** 64° ±3°
- Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43787	0.51	2.35	0.92	orange/yellow	6	207.00
43788	0.64	2.48	0.92	orange/white	6	207.00
43789	0.76	2.6	0.92	black	6	207.00
43790	0.89	2.73	0.92	orange	6	207.00
43791	1.02	2.86	0.92	white	6	207.00
43792	1.14	2.98	0.92	red	6	207.00
43793	1.29	3.13	0.92	grey	6	207.00
43794	1.42	3.26	0.92	yellow	6	207.00
43795	1.52	3.36	0.92	yellow/blue	6	207.00
43796	1.65	3.49	0.92	blue	6	207.00
43797	1.85	3.69	0.92	green	6	207.00

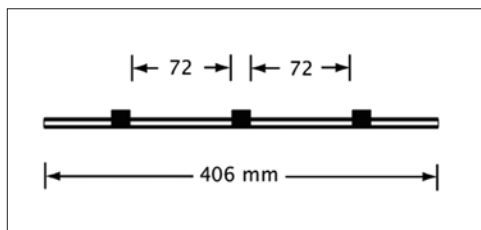
### THOMAFLUID®-High-Tech-FPM Pump Tubing Fitted with 3 Stoppers

#### Product specification

- For peristaltic pumps with mini tubing cassettes.
- Fitted with three involved stoppers each for mounting in mini tubing cassettes, double operating time due to twofold usability of the tubing; colour-coded for clearly organized use.
- Application-oriented, precision adjusted inside diameter from 0.508 to 2.794 mm; total length: 40 cm; distance between stoppers: approx. 8 cm; distance between the two outer stoppers: approx. 17 cm.

#### Technical specification

- Material:** FPM (fluorinated rubber)
- Shore hardness A:** 64° ±3°
- Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43802	0.51	2.35	0.92	orange/yellow	6	333.00
43803	0.64	2.48	0.92	orange/white	6	333.00
43804	0.76	2.6	0.92	black	6	333.00
43805	0.89	2.73	0.92	orange	6	333.00
43806	1.02	2.86	0.92	white	6	333.00
43807	1.14	2.98	0.92	red	6	333.00
43808	1.29	3.13	0.92	grey	6	333.00
43809	1.42	3.26	0.92	yellow	6	333.00
43810	1.52	3.36	0.92	yellow/blue	6	333.00
43811	1.65	3.49	0.92	blue	6	333.00
43812	1.85	3.69	0.92	green	6	333.00
43813	2.06	3.9	0.92	violet	6	333.00
43814	2.29	4.13	0.92	violet/black	6	333.00
43815	2.54	4.38	0.92	violet/orange	6	333.00
43816	2.79	4.63	0.92	violet/white	6	333.00

### THOMAFLUID®-FPM Peristaltic Pump Tubing - High-Precision 55

#### Product specification

- Very soft quality and for peristaltic pumps ideal.
- Very low tolerances due to mandrel-manufacturing referring to DIN ISO E1.
- Available in lengths of 1.5; 5 and 10 meter.

#### Technical specification

- Material:** FPM (fluorinated rubber)
- Shore hardness A:** 55° ±5°
- Design:** mandrel-manufacturing
- Tolerance:** DIN ISO 3302-1 E1





Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Length m	Unit piece	Price EURO
340554	0.8	4	1.6	5	1	208.00
340555	0.8	4	1.6	10	1	364.00
340556	1.6	4.8	1.6	5	1	226.00
340557	1.6	4.8	1.6	10	1	390.00
340558	3.2	6.4	1.6	1.5	1	80.00
340559	3.2	6.4	1.6	1.5	3	197.00
340560	4.8	7.9	1.6	1.5	1	85.00
340561	4.8	7.9	1.6	1.5	3	215.00
340562	6.4	9.5	1.6	1.5	1	97.00
340563	6.4	9.5	1.6	1.5	3	246.00

### THOMAFLUID®-FPM Chemical Tubing - High-Flexible 62

#### Technical specification

- **Material:** FPM (fluorinated rubber)
- **Shore hardness A:** 62° ±5°
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
340941	0.8	2.8	1	1	38.00
340528	0.8	2.8	1	3	86.00
340529	0.8	2.8	1	5	118.00
14774	1	3	1	5	74.00
14775	1	3	1	10	130.00
14776	1.5	3	0.75	5	70.00
14777	1.5	3	0.75	10	124.00
340411	1.6	3.2	0.8	5	72.00
340412	1.6	3.2	0.8	10	128.00
340530	1.6	4.8	1.6	1	56.00
340531	1.6	4.8	1.6	3	126.00
340532	1.6	4.8	1.6	5	176.00
14778	2	4	1	5	93.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
14779	2	4	1	10	166.00
14780	3	5	1	5	121.00
14781	3	5	1	10	215.00
340413	3.2	6.4	1.6	5	128.00
340414	3.2	6.4	1.6	10	223.00
14782	4	6	1	5	127.00
14783	4	6	1	10	222.00
340533	4	7.2	1.6	1	88.00
340534	4	7.2	1.6	3	192.00
340535	4	7.2	1.6	5	262.00
14784	4	8	2	1	61.00
14785	4	8	2	5	258.00
340536	4.8	7.9	1.6	1	102.00
340537	4.8	7.9	1.6	3	222.00
340538	4.8	7.9	1.6	5	298.00
340539	4.8	9.5	2.4	1	136.00
340540	4.8	9.5	2.4	3	324.00
340541	4.8	9.5	2.4	5	404.00
14786	5	8	1.5	1	58.00
14787	5	8	1.5	5	252.00
14788	5	10	2.5	1	76.00
14789	5	10	2.5	5	316.00
14790	6	9	1.5	1	61.00
14791	6	9	1.5	5	258.00
14792	6	10	2	1	69.00
14793	6	10	2	5	298.00
14794	6	12	3	1	85.00
14795	6	12	3	5	335.00
340415	6.4	9.5	1.6	1	65.00
340416	6.4	9.5	1.6	5	260.00
340542	6.4	11.1	2.4	1	140.00
340543	6.4	11.1	2.4	3	332.00
340544	6.4	11.1	2.4	5	414.00
14796	7	10	1.5	1	68.00
14797	7	10	1.5	5	288.00
340417	7.9	12.7	2.4	1	103.00
340418	7.9	12.7	2.4	5	412.00
14798	8	11	1.5	1	71.00
14799	8	11	1.5	5	304.00
14800	8	12	2	1	86.00
14801	8	12	2	5	372.00
340545	9.5	14.3	2.4	1	146.00
340546	9.5	14.3	2.4	3	332.00
340547	9.5	14.3	2.4	5	456.00
340548	9.5	15.9	3.2	1	196.00
340549	9.5	15.9	3.2	3	364.00
340550	9.5	15.9	3.2	5	486.00
14802	10	14	2	1	96.00
14803	10	14	2	5	405.00
14804	12	17	2.5	1	112.00
14805	12	17	2.5	5	437.00
340551	12.7	19	3.15	1	182.00
340552	12.7	19	3.15	3	456.00
340553	12.7	19	3.15	5	606.00

## THOMAFLUID®-FPM Chemical Tubing - High-Flexible 60

### Technical specification

- **Material:** FPM (fluorinated rubber)
- **Shore hardness A:** 60° ±5°
- **Density:** 1.90 g/cm<sup>3</sup>
- **Embrittlement temperature:** -51 °C
- **Tensile strength:** 9.3 MPa (ASTM D412-98)
- **Tear resistance:** 17.5 kN/m (ASTM D1004)
- **Ultimate elongation:** 300 % (ASTM D412)
- **Tensile modulus:** 2.4 MPa at 200 % Elongation
- **Compression set:** 37 % at +70 °C / 22 h
- **Dielectric strength:** 19.7 kV/mm (ASTM D149-97)
- **Water absorption:** 0.23 % at +23 °C / 24 h
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
45190	1.6	3.2	0.8	1.2	1	42.00
45191	1.6	3.2	0.8	1.2	3	94.00
45192	1.6	3.2	0.8	1.2	5	132.00
45193	3.2	6.4	1.6	1.3	1	76.00
45194	3.2	6.4	1.6	1.3	3	166.00
45195	3.2	6.4	1.6	1.3	5	226.00
45196	6.4	9.5	1.6	0.9	1	126.00
45197	6.4	9.5	1.6	0.9	3	278.00
45198	6.4	9.5	1.6	0.9	5	388.00
45199	7.9	11.1	1.6	0.7	1	132.00
45200	7.9	11.1	1.6	0.7	3	286.00
45201	7.9	11.1	1.6	0.7	5	398.00
45202	9.5	12.7	1.6	0.6	1	194.00
45203	9.5	12.7	1.6	0.6	3	390.00
45204	9.5	12.7	1.6	0.6	5	506.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-FPM Chemical Tubing - Standard Flexible 75



### Technical specification

- **Material:** FPM (fluorinated rubber)
- **Shore hardness A:** 75° ±3°
- **Tolerance:** DIN ISO 3302-1 E2

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
92145	1	3	1	3	74.00
92146	1	3	1	9	171.00
92147	2	4	1	3	78.00
92148	2	4	1	9	194.00
92149	3	5	1	3	79.00
92150	3	5	1	9	197.00
92151	3	6	1.5	3	98.00
92152	3	6	1.5	9	243.00
92155	4	6	1	3	78.00
92156	4	6	1	9	185.00
92157	4	7	1.5	3	116.00
92158	4	7	1.5	9	293.00
92159	4	8	2	3	150.00
92160	4	8	2	9	387.00
92163	5	7	1	3	88.00
92164	5	7	1	9	217.00
92165	5	8	1.5	3	124.00
92166	5	8	1.5	9	284.00
92167	5	9	2	3	129.00
92168	5	9	2	9	370.00
92169	6	8	1	3	108.00
92170	6	8	1	9	230.00
92171	6	9	1.5	3	136.00
92172	6	9	1.5	9	320.00
92173	6	10	2	1	68.00
92174	6	10	2	3	166.00
14843	6	12	3	1	90.00
14844	6	12	3	3	224.00
92175	7	9	1	1	68.00
92176	7	9	1	3	166.00
92177	7	10	1.5	1	76.00
92178	7	10	1.5	3	187.00
92179	7	11	2	1	88.00
92180	7	11	2	3	216.00
92181	8	10	1	1	71.00
92182	8	10	1	3	175.00
92183	8	11	1.5	1	71.00
92184	8	11	1.5	3	186.00
92185	8	12	2	1	83.00
92186	8	12	2	3	212.00
92187	8	14	3	1	130.00
92188	8	14	3	3	311.00
14841	9	12	1.5	1	73.00
14842	9	12	1.5	3	181.00
92189	9	13	2	1	93.00
92190	9	13	2	3	223.00
92191	9	15	3	1	142.00
92192	9	15	3	3	339.00
92193	10	13	1.5	1	86.00
92194	10	13	1.5	3	206.00
92195	10	14	2	1	90.00
92196	10	14	2	3	216.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
92197	10	15	2.5	1	122.00
92198	10	15	2.5	3	293.00
92201	10	18	4	1	211.00
92202	10	18	4	3	506.00
92203	11	14	1.5	1	75.00
92204	11	14	1.5	3	188.00
92205	12	15	1.5	1	65.00
92206	12	15	1.5	3	171.00
14845	12	16	2	1	90.00
14846	12	16	2	3	224.00
14847	12	17	2.5	1	165.00
14848	12	17	2.5	3	407.00
92207	12	18	3	1	175.00
92208	12	18	3	3	418.00
92209	12	20	4	1	226.00
92210	12	20	4	3	542.00
92211	12	22	5	1	355.00
92212	12	22	5	3	851.00
92213	13	15	1	1	86.00
92214	13	15	1	3	221.00
92215	13	17	2	1	131.00
92216	13	17	2	3	314.00
92217	13	19	3	1	201.00
92218	13	19	3	3	481.00
92219	14	16	1	1	102.00
92220	14	16	1	3	244.00
92221	14	18	2	1	145.00
92222	14	18	2	3	346.00
92227	15	18	1.5	1	99.00
92228	15	18	1.5	3	245.00
92229	15	19	2	1	148.00
92230	15	19	2	3	354.00
92231	15	21	3	1	226.00
92232	15	21	3	3	542.00
92233	15	22	3.5	1	271.00
14849	18	22	2	1	269.00
14850	18	22	2	3	694.00
340811	18	24	3	1	280.00
340812	18	24	3	3	720.00
92241	20	24	2	1	184.00
92242	20	24	2	3	439.00
340813	20	27	3.5	1	328.00
340814	20	27	3.5	3	838.00
340815	25	32	3.5	1	372.00
340816	25	32	3.5	3	928.00
92255	25	33	4	1	485.00
92256	25	33	4	3	1,160.00
340819	30	38	4	1	478.00
340820	30	38	4	3	1,174.00
340821	30	40	5	1	545.00
340822	30	40	5	3	1,308.00
92267	35	39	2	1	376.00
92268	35	39	2	3	902.00
340823	40	50	5	1	624.00
340824	40	50	5	3	1,497.00

## THOMAFLUID®-FPM Pump Tubing - imperial

### Product specification

- Exclusive Masterflex® formulation - highest fluorine content of any FPM for enhanced chemical compatibility.
- Resistant to corrosive solvents and aliphatic and aromatic hydrocarbons.
- Ultra-low gas permeability maintains integrity of fluid.

### Technical specification

- **Material:** FPM (fluorinated rubber, Masterflex®-6412)
- **Shore hardness A:** 64° ±3°
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
971431	0.8	4	1	43.00
971432	0.8	4	7.5	225.00
971441	1.6	4.8	1	71.00
971442	1.6	4.8	7.5	266.00
971461	3.2	6.4	1	81.00
971462	3.2	6.4	7.5	277.00
971453	4.8	7.9	1	112.00
971454	4.8	7.9	7.5	336.00
971451	4.8	9.5	1	139.00
971452	4.8	9.5	7.5	420.00
971471	6.4	9.5	1	130.00
971472	6.4	9.5	7.5	343.00
971481	7.9	11.1	1	134.00
971482	7.9	11.1	7.5	379.00

## THOMAFLUID®-High-Chem-FPM Tubing with Steel Wire Braiding

### Application area

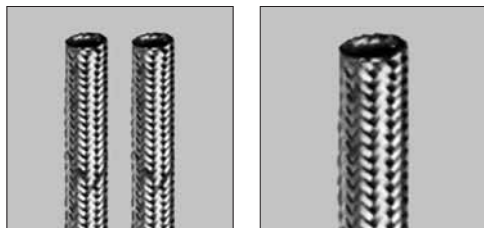
- Chemical industry, pharmaceutical industry, mineral oil industry, process engineering

### Product specification

- Pressure tubing with steel wire braiding
- Extraordinary chemical resistance
- Best temperature resistance
- Very good resistance to ozone and oxygen
- High resistance to aging and weather
- Smooth surface
- High mechanical stability
- Tubing with DN 8, 10, 12, 15, 18 and 20 can be fitted with metal fittings, completely mounted.

**Technical specification**

- **Material:**  
Insert: FPM (fluorinated rubber)  
Jacket: zinc-plated steel wire braiding
- **Colour:** black
- **Shore hardness A:** 75° ±5° (DIN 53505)
- **Temperature range:** -25 to +180 °C



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
330113	6	9.5	6	50	1	76.00
330114	6	9.5	6	50	5	324.00
330115	6	9.5	6	50	15	804.00
340355	8	12	7	55	1	82.00
340356	8	12	7	55	5	342.00
340357	8	12	7	55	15	832.00
330116	9	13.5	8	60	1	104.00
330117	9	13.5	8	60	5	444.00
330118	9	13.5	8	60	15	1,112.00
340358	10	14	8	65	1	108.00
340359	10	14	8	65	5	454.00
340360	10	14	8	65	15	1,132.00
340361	12	16	8	65	1	124.00
340362	12	16	8	65	5	472.00
340363	12	16	8	65	15	1,158.00
330119	13	17.5	8	70	1	140.00
330120	13	17.5	8	70	5	598.00
330121	13	17.5	8	70	15	1,496.00
340364	15	19	8	75	1	188.00
340365	15	19	8	75	5	689.00
340366	15	19	8	75	15	1,648.00
340367	18	22	7.5	80	1	220.00
340368	18	22	7.5	80	5	798.00
340369	18	22	7.5	80	15	1,864.00
340370	20	24	7	90	1	242.00
340371	20	24	7	90	5	878.00
340372	20	24	7	90	15	2,048.00

<sup>1</sup> at +150 °C

**THOMAFLUID®-High-Chem-FPM Chemical Tubing - glass fabric braiding**

**Application area**

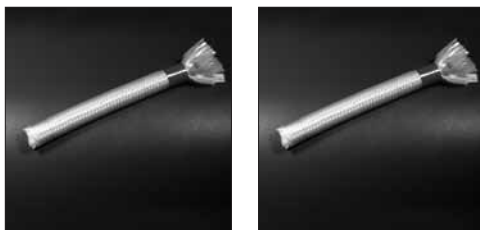
- Chemical process engineering, Mineral oil industry, Process technology, Hydraulics engineering, Pharmaceutical engineering, Machine construction

**Product specification**

- Hydraulic tubing / pressure tubing with glass fabric braiding.
- Extraordinary thermal loading capacity.
- Highest chemical resistance to aliphatic, aromatic and halogenated hydrocarbons, fuels, acids, alcohols, oils and hydraulic fluids.
- High resistance to aging and weather.
- Very high mechanical stability.

**Technical specification**

- **Material:**  
Liner: FPM (fluorinated rubber)  
Jacket: glass fabric braiding (0.3 mm)
- **Colour:** black, braiding white
- **Shore hardness A:** 70° ±5° (DIN 53505)
- **Temperature range:** -20 to +200 °C, for a short time +300 °C
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	bar	m	EURO
301900	6	10.3	10	1	56.00
301901	6	10.3	10	5	206.00
301902	8	12.3	10	1	74.00
301903	8	12.3	10	5	266.00
301904	10	14.3	10	1	84.00
301905	10	14.3	10	5	306.00
301906	12	16.3	8	1	96.00
301907	12	16.3	8	5	348.00
301908	15	21.3	6	1	170.00
301909	15	21.3	6	5	610.00
301910	18	24.3	6	1	198.00
301911	18	24.3	6	5	718.00
301912	20	26.7	5	1	218.00
301913	20	26.7	5	5	798.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-FPM Double-Wall Jacket Chemical Tubing**

**Application area**

- Chemical industry, Pharmaceutical industry, Mineral oil industry, Process engineering

**Product specification**

- **Liner:**  
Very good resistance to chemicals  
Very good heat resistance (operating temperatures)  
Very high chemical resistance  
Very good resistance to ozone, oxygen, aging, and weather  
Good flame resistance

**Technical specification**

- **Material:**  
Liner: FKM (fluorinated rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -20 to +120 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C
- **Insert:** polyester fabric with 2 copper braids, crossed
- **Design:** smooth (inside and outside)



Item	Inside Ø mm	Outside Ø mm	Min. bending radius mm	Unit m	Price EURO
42164	6	15	100	1	100.00
42165	6	15	100	3	243.00
42166	8	17	120	1	116.00
42167	8	17	120	3	274.00
42168	10	19	150	1	131.00
42169	10	19	150	3	305.00
42170	13	22	180	1	146.00
42171	13	22	180	3	346.00
42172	16	25	200	1	182.00
42173	16	25	200	3	310.00
42174	19	28	240	1	151.00
42175	19	28	240	3	356.00

**Glass Fabric Tubing**

**THOMAFLUID®-High-Tech-Glass Silk Tubing with Silicone Jacket**

**Application area**

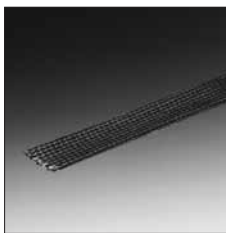
- Extremely loaded electrical insulations

**Product specification**

- Flexible safety insulation tubing made of dense glass silk braiding with calibrated, strong silicone rubber jacket.
- High thermal loading capacity, self-extinguishing. When overheated, vitrification occurs without melting and without formation of toxic gases or residues; chemically nearly inert, resistant to oxidative effects too.

**Technical specification**

- **Colour:** black
- **Temperature range:** +180 °C, for a short time +200 °C
- **Insulation class according to VDE:** H
- **Dielectric strength:** 2.5 kV
- **Flammability rating:** UL 94 V-0



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
48031	3	4.2	0.6	5	29.00
48032	3	4.2	0.6	10	44.00
48033	3	4.2	0.6	30	121.00
48034	6	7.2	0.6	5	46.00
48035	6	7.2	0.6	10	82.00
48036	6	7.2	0.6	30	200.00
48037	8	9.4	0.7	5	64.00
48038	8	9.4	0.7	10	116.00
48039	8	9.4	0.7	30	279.00

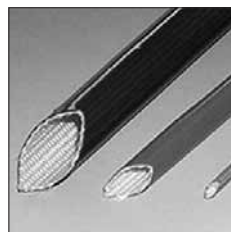
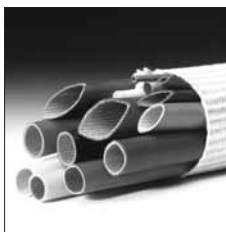
**THOMAFLUID®-High-Tech-Glass Fabric Tubing with Silicone Rubber Coating**

**Application area**

- Highly stress-resistant electrical insulation tubing
- Insulation of bus bars and bus connections
- Coating over thermal fuses in electric stoves
- Cable assembly
- Insulation of soldered split sites on cables
- As replacement for insulating and wrapping tapes
- For unequally formed and hardly isolable parts
- For acoustic insulation, e.g. on self-supporting car body panels

**Product specification**

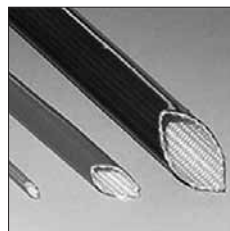
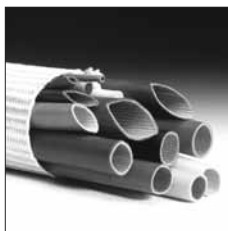
- The highly flexible insulating tubing adapts problem-free to varying shapes without the need for heat for reduction of diameter, as in case of shrinkable tubing.
- The glass fabric tubing with silicone rubber coating has simply to be fitted over the object to be jacketed.
- The expansion (expansion factor) reaches double the standard inside diameter. A tubing with inside diameter of 6 mm has an application range of 6-12 mm.
- Good compatibility with all commercial impregnating resins and lacquers.
- Resistant to hydrocarbons
- No chemical changes after 336 hrs at +70 °C
- Resistance to oil: 96 h at +100 °C in ASTM Oil No 214000 V 1440 h at +80 °C in ASTM Oil No 2: 13200 V



**Technical specification**

- **Material:** glass fabric, silicone coated
- **Colour:** black
- **Temperature range:** -70 to +235 °C, for a short time +300 °C
- **Strain rate:** 1:2, highly flexible with extreme mechanical stability
- **Flammability rating:** according to UL 1441, VW-1
- **Voltage strength:** according to UL minimum 5.0 kV; nominal 9.0 kV
- **Regulations:** according to UL and C-UL (UL-listed)
- **Special data:**

Operating voltage: 600 V  
 Before thermal aging: 13.9 kV  
 After 7 days at +265 °C: 15.3 kV  
 After 60 days at +265 °C: 16.0 kV  
 Tubing stretched to double its nominal width: 8.7 kV



Item	Inside Ø	Tolerance	Max. internal elongation	Wall thick- ness	Unit	Price
	mm	mm	mm	mm	m	EURO
331765	2	±0.2	4	0.64	5	48.00
331766	2	±0.2	4	0.64	15	124.00
331767	3	±0.2	6	0.64	5	62.00
331768	3	±0.2	6	0.64	15	162.00
331769	4	±0.25	8	0.64	5	76.00
331770	4	±0.25	8	0.64	15	184.00
331771	6	±0.25	12	0.76	5	96.00
331772	6	±0.25	12	0.76	15	242.00
331773	8	±0.25	16	0.76	5	106.00
331774	8	±0.25	16	0.76	15	252.00
331775	10	±0.5	20	0.9	5	122.00
331776	10	±0.5	20	0.9	15	284.00
331777	12	±0.5	24	0.9	5	132.00
331778	12	±0.5	24	0.9	15	304.00
331779	14	±0.5	28	0.9	5	142.00
331780	14	±0.5	28	0.9	15	316.00
331781	16	±1.0	32	0.9	5	156.00
331782	16	±1.0	32	0.9	15	336.00

**THOMAFLUID®-High-Tech-Glass Fabric Tubing with Acrylic Lacquer Coating**

**Application area**

- Insulation of lines, cables and connections in the areas of mechanical engineering, engine and transformer construction

**Product specification**

- Protective tubing for standard applications.
- Remarkable voltage strength of averagely 9 kV.
- Chemical resistance: compatible with the most insulating and impregnating resins.

**Technical specification**

- **Material:** glass fabric tubing, acrylic resin coated
- **Colour:** natural, black, red, blue, yellow, green, orange, violet
- **Temperature range:** -25 to +155 °C
- **Thermal class:** F
- **Flammability rating:** UL 1441 (horizontal) and IEC 684 Part 2 Clause 26 (Method A, vertical)
- **Voltage strength:** min. 5.0 kV (DIN 40620); but nom. 9.0 kV
- **Dielectric strength:** 9.0 kV according to UL 1441; 7.0 kV according to IEC 684-3; paper 403-05 (average value); 6.0 kV according to IEC 684-3; paper 403-05 (average value)

Item	Inside Ø	Tolerance	Wall thickness	Colour	Unit	Price
	mm	mm	mm		m	EURO
331783	0.5	+0.15	0.28	natural/white	5	30.00
331784	0.5	+0.15	0.28	natural/white	15	80.00
331785	0.5	+0.15	0.28	black	5	30.00
331786	0.5	+0.15	0.28	black	15	80.00
331787	0.5	+0.15	0.28	red	5	30.00
331788	0.5	+0.15	0.28	red	15	80.00
331789	0.5	+0.15	0.28	blue	5	30.00
331790	0.5	+0.15	0.28	blue	15	80.00
331791	0.5	+0.15	0.28	yellow	5	30.00
331792	0.5	+0.15	0.28	yellow	15	80.00
331793	0.5	+0.15	0.28	green	5	30.00
331794	0.5	+0.15	0.28	green	15	80.00
331795	0.5	+0.15	0.28	orange	5	30.00
331796	0.5	+0.15	0.28	orange	15	80.00
331797	0.5	+0.15	0.28	violet	5	30.00
331798	0.5	+0.15	0.28	violet	15	80.00
331799	1	+0.20	0.38	natural/white	5	34.00
331800	1	+0.20	0.38	natural/white	15	90.00
331801	1	+0.20	0.38	black	5	34.00
331802	1	+0.20	0.38	black	15	90.00
331803	1	+0.20	0.38	red	5	34.00
331804	1	+0.20	0.38	red	15	90.00
331805	1	+0.20	0.38	blue	5	34.00
331806	1	+0.20	0.38	blue	15	90.00
331807	1	+0.20	0.38	yellow	5	34.00
331808	1	+0.20	0.38	yellow	15	90.00
331809	1	+0.20	0.38	green	5	34.00
331810	1	+0.20	0.38	green	15	90.00
331811	1	+0.20	0.38	orange	5	34.00
331812	1	+0.20	0.38	orange	15	90.00
331813	1	+0.20	0.38	violet	5	34.00
331814	1	+0.20	0.38	violet	15	90.00
331815	1.5	+0.25	0.38	natural/white	5	38.00
331816	1.5	+0.25	0.38	natural/white	15	106.00
331817	1.5	+0.25	0.38	black	5	38.00
331818	1.5	+0.25	0.38	black	15	106.00
331819	1.5	+0.25	0.38	red	5	38.00
331820	1.5	+0.25	0.38	red	15	106.00
331821	1.5	+0.25	0.38	blue	5	38.00
331822	1.5	+0.25	0.38	blue	15	106.00
331823	1.5	+0.25	0.38	yellow	5	38.00
331824	1.5	+0.25	0.38	yellow	15	106.00
331825	1.5	+0.25	0.38	green	5	38.00
331826	1.5	+0.25	0.38	green	15	106.00
331827	1.5	+0.25	0.38	orange	5	38.00

Item	Inside Ø mm	Tolerance mm	Wall thickness mm	Colour	Unit m	Price EURO
331828	1.5	+0.25	0.38	orange	15	106.00
331829	1.5	+0.25	0.38	violet	5	38.00
331830	1.5	+0.25	0.38	violet	15	106.00
331831	2	+0.25	0.35	natural/white	5	44.00
331832	2	+0.25	0.35	natural/white	15	120.00
331833	2	+0.25	0.35	black	5	44.00
331834	2	+0.25	0.35	black	15	120.00
331835	2	+0.25	0.35	red	5	44.00
331836	2	+0.25	0.35	red	15	120.00
331837	2	+0.25	0.35	blue	5	44.00
331838	2	+0.25	0.35	blue	15	120.00
331839	2	+0.25	0.35	yellow	5	44.00
331840	2	+0.25	0.35	yellow	15	120.00
331841	2	+0.25	0.35	green	5	44.00
331842	2	+0.25	0.35	green	15	120.00
331843	2	+0.25	0.35	orange	5	44.00
331844	2	+0.25	0.35	orange	15	120.00
331845	2	+0.25	0.35	violet	5	44.00
331846	2	+0.25	0.35	violet	15	120.00
331847	2.5	+0.30	0.46	natural/white	5	46.00
331848	2.5	+0.30	0.46	natural/white	15	124.00
331849	2.5	+0.30	0.46	black	5	46.00
331850	2.5	+0.30	0.46	black	15	124.00
331851	2.5	+0.30	0.46	red	5	46.00
331852	2.5	+0.30	0.46	red	15	124.00
331853	2.5	+0.30	0.46	blue	5	46.00
331854	2.5	+0.30	0.46	blue	15	124.00
331855	2.5	+0.30	0.46	yellow	5	46.00
331856	2.5	+0.30	0.46	yellow	15	124.00
331857	2.5	+0.30	0.46	green	5	46.00
331858	2.5	+0.30	0.46	green	15	124.00
331859	2.5	+0.30	0.46	orange	5	46.00
331860	2.5	+0.30	0.46	orange	15	124.00
331861	2.5	+0.30	0.46	violet	5	46.00
331862	2.5	+0.30	0.46	violet	15	124.00
331863	3	+0.30	0.46	natural/white	5	50.00
331864	3	+0.30	0.46	natural/white	15	130.00
331865	3	+0.30	0.46	black	5	50.00
331866	3	+0.30	0.46	black	15	130.00
331867	3	+0.30	0.46	red	5	50.00
331868	3	+0.30	0.46	red	15	130.00
331869	3	+0.30	0.46	blue	5	50.00
331870	3	+0.30	0.46	blue	15	130.00
331871	3	+0.30	0.46	yellow	5	50.00
331872	3	+0.30	0.46	yellow	15	130.00
331873	3	+0.30	0.46	green	5	50.00
331874	3	+0.30	0.46	green	15	130.00
331875	3	+0.30	0.46	orange	5	50.00
331876	3	+0.30	0.46	orange	15	130.00
331877	3	+0.30	0.46	violet	5	50.00
331878	3	+0.30	0.46	violet	15	130.00
331879	3.5	+0.30	0.46	natural/white	5	54.00
331880	3.5	+0.30	0.46	natural/white	15	144.00
331881	3.5	+0.30	0.46	black	5	54.00
331882	3.5	+0.30	0.46	black	15	144.00

Item	Inside Ø mm	Tolerance mm	Wall thickness mm	Colour	Unit m	Price EURO
331883	3.5	+0.30	0.46	red	5	54.00
331884	3.5	+0.30	0.46	red	15	144.00
331885	3.5	+0.30	0.46	blue	5	54.00
331886	3.5	+0.30	0.46	blue	15	144.00
331887	3.5	+0.30	0.46	yellow	5	54.00
331888	3.5	+0.30	0.46	yellow	15	144.00
331889	3.5	+0.30	0.46	green	5	54.00
331890	3.5	+0.30	0.46	green	15	144.00
331891	3.5	+0.30	0.46	orange	5	54.00
331892	3.5	+0.30	0.46	orange	15	144.00
331893	3.5	+0.30	0.46	violet	5	54.00
331894	3.5	+0.30	0.46	violet	15	144.00
331895	4	+0.40	0.51	natural/white	5	58.00
331896	4	+0.40	0.51	natural/white	15	156.00
331897	4	+0.40	0.51	black	5	58.00
331898	4	+0.40	0.51	black	15	156.00
331899	4	+0.40	0.51	red	5	58.00
331900	4	+0.40	0.51	red	15	156.00
331901	4	+0.40	0.51	blue	5	58.00
331902	4	+0.40	0.51	blue	15	156.00
331903	4	+0.40	0.51	yellow	5	58.00
331904	4	+0.40	0.51	yellow	15	156.00
331905	4	+0.40	0.51	green	5	58.00
331906	4	+0.40	0.51	green	15	156.00
331907	4	+0.40	0.51	orange	5	58.00
331908	4	+0.40	0.51	orange	15	156.00
331909	4	+0.40	0.51	violet	5	58.00
331910	4	+0.40	0.51	violet	15	156.00
331911	4.5	+0.40	0.51	natural/white	5	62.00
331912	4.5	+0.40	0.51	natural/white	15	166.00
331913	4.5	+0.40	0.51	black	5	62.00
331914	4.5	+0.40	0.51	black	15	166.00
331915	4.5	+0.40	0.51	red	5	62.00
331916	4.5	+0.40	0.51	red	15	166.00
331917	4.5	+0.40	0.51	blue	5	62.00
331918	4.5	+0.40	0.51	blue	15	166.00
331919	4.5	+0.40	0.51	yellow	5	62.00
331920	4.5	+0.40	0.51	yellow	15	166.00
331921	4.5	+0.40	0.51	green	5	62.00
331922	4.5	+0.40	0.51	green	15	166.00
331923	4.5	+0.40	0.51	orange	5	62.00
331924	4.5	+0.40	0.51	orange	15	166.00
331925	4.5	+0.40	0.51	violet	5	62.00
331926	4.5	+0.40	0.51	violet	15	166.00
331927	5	+0.50	0.51	natural/white	5	66.00
331928	5	+0.50	0.51	natural/white	15	172.00
331929	5	+0.50	0.51	black	5	66.00
331930	5	+0.50	0.51	black	15	172.00
331931	5	+0.50	0.51	red	5	66.00
331932	5	+0.50	0.51	red	15	172.00
331933	5	+0.50	0.51	blue	5	66.00
331934	5	+0.50	0.51	blue	15	172.00
331935	5	+0.50	0.51	yellow	5	66.00
331936	5	+0.50	0.51	yellow	15	172.00
331937	5	+0.50	0.51	green	5	66.00

Item	Inside Ø mm	Tolerance mm	Wall thickness mm	Colour	Unit m	Price EURO
331938	5	+0.50	0.51	green	15	172.00
331939	5	+0.50	0.51	orange	5	66.00
331940	5	+0.50	0.51	orange	15	172.00
331941	5	+0.50	0.51	violet	5	66.00
331942	5	+0.50	0.51	violet	15	172.00
331943	6	+0.50	0.51	natural/white	5	68.00
331944	6	+0.50	0.51	natural/white	15	178.00
331945	6	+0.50	0.51	black	5	68.00
331946	6	+0.50	0.51	black	15	178.00
331947	6	+0.50	0.51	red	5	68.00
331948	6	+0.50	0.51	red	15	178.00
331949	6	+0.50	0.51	blue	5	68.00
331950	6	+0.50	0.51	blue	15	178.00
331951	6	+0.50	0.51	yellow	5	68.00
331952	6	+0.50	0.51	yellow	15	178.00
331953	6	+0.50	0.51	green	5	68.00
331954	6	+0.50	0.51	green	15	178.00
331955	6	+0.50	0.51	orange	5	68.00
331956	6	+0.50	0.51	orange	15	178.00
331957	6	+0.50	0.51	violet	5	68.00
331958	6	+0.50	0.51	violet	15	178.00
331959	7	+0.50	0.51	natural/white	5	78.00
331960	7	+0.50	0.51	natural/white	15	204.00
331961	7	+0.50	0.51	black	5	78.00
331962	7	+0.50	0.51	black	15	204.00
331963	7	+0.50	0.51	red	5	78.00
331964	7	+0.50	0.51	red	15	204.00
331965	7	+0.50	0.51	blue	5	78.00
331966	7	+0.50	0.51	blue	15	204.00
331967	7	+0.50	0.51	yellow	5	78.00
331968	7	+0.50	0.51	yellow	15	204.00
331969	7	+0.50	0.51	green	5	78.00
331970	7	+0.50	0.51	green	15	204.00
331971	7	+0.50	0.51	orange	5	78.00
331972	7	+0.50	0.51	orange	15	204.00
331973	7	+0.50	0.51	violet	5	78.00
331974	7	+0.50	0.51	violet	15	204.00
331975	8	+0.50	0.64	natural/white	5	84.00
331976	8	+0.50	0.64	natural/white	15	216.00
331977	8	+0.50	0.64	black	5	84.00
331978	8	+0.50	0.64	black	15	216.00
331979	8	+0.50	0.64	red	5	84.00
331980	8	+0.50	0.64	red	15	216.00
331981	8	+0.50	0.64	blue	5	84.00
331982	8	+0.50	0.64	blue	15	216.00
331983	8	+0.50	0.64	yellow	5	84.00
331984	8	+0.50	0.64	yellow	15	216.00
331985	8	+0.50	0.64	green	5	84.00
331986	8	+0.50	0.64	green	15	216.00
331987	8	+0.50	0.64	orange	5	84.00
331988	8	+0.50	0.64	orange	15	216.00
331989	8	+0.50	0.64	violet	5	84.00
331990	8	+0.50	0.64	violet	15	216.00
331991	9	+0.60	0.64	nature	5	98.00
331992	9	+0.60	0.64	nature	15	248.00

Item	Inside Ø mm	Tolerance mm	Wall thickness mm	Colour	Unit m	Price EURO
332007	10	+0.60	0.64	natural/white	5	106.00
332008	10	+0.60	0.64	natural/white	15	266.00
332009	10	+0.60	0.64	black	5	106.00
332010	10	+0.60	0.64	black	15	266.00
332011	10	+0.60	0.64	red	5	106.00
332012	10	+0.60	0.64	red	15	266.00
332013	10	+0.60	0.64	blue	5	106.00
332014	10	+0.60	0.64	blue	15	266.00
332015	10	+0.60	0.64	yellow	5	106.00
332016	10	+0.60	0.64	yellow	15	266.00
332017	10	+0.60	0.64	green	5	106.00
332018	10	+0.60	0.64	green	15	266.00
332019	10	+0.60	0.64	orange	5	106.00
332020	10	+0.60	0.64	orange	15	266.00
332021	10	+0.60	0.64	violet	5	106.00
332022	10	+0.60	0.64	violet	15	266.00
332023	12	+0.60	0.64	natural/white	5	118.00
332024	12	+0.60	0.64	natural/white	15	288.00
332025	12	+0.60	0.64	black	5	118.00
332026	12	+0.60	0.64	black	15	288.00
332027	12	+0.60	0.64	red	5	118.00
332028	12	+0.60	0.64	red	15	288.00
332029	12	+0.60	0.64	blue	5	118.00
332030	12	+0.60	0.64	blue	15	288.00
332031	12	+0.60	0.64	yellow	5	118.00
332032	12	+0.60	0.64	yellow	15	288.00
332033	12	+0.60	0.64	green	5	118.00
332034	12	+0.60	0.64	green	15	288.00
332035	12	+0.60	0.64	orange	5	118.00
332036	12	+0.60	0.64	orange	15	288.00
332037	12	+0.60	0.64	violet	5	118.00
332038	12	+0.60	0.64	violet	15	288.00

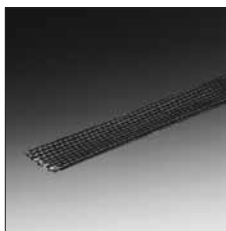
### THOMAFLUID®-High-Tech-Glass Silk Heat Protective Tubing

#### Product specification

- Protective hoses made of ceramic-impregnated glass silk braiding
- Heat and contact protection, for covering with a large expansion range

#### Technical specification

- **Material:** ceramic-impregnated glass silk braiding
- **Colour:** black
- **Temperature range:** -30 to +450 °C
- **Design:** temperature-resistant, covering braiding





Item	For tubing outside Ø mm	Weight g/m	Unit m	Price EURO
10006	16 - 23	60	2	44.00
10007	16 - 23	60	6	100.00
10008	25 - 32	80	2	49.00
10009	25 - 32	80	6	116.00
10010	32 - 45	100	2	59.00
10011	32 - 45	100	6	141.00
10012	45 - 60	130	2	72.00
10013	45 - 60	130	6	172.00

## IIR Tubing

### THOMAFLUID®-IIR Chemical Tubing

#### Product specification

- Rubber-elastic special butyl-caoutchouc compound
- Lowest permeability to gases, steam, and air
- Tenfold less air diffusion than comparable natural rubber tubing quality
- Best resistance to abrasion
- Good resistance to ozone, and weather
- High damping capacity
- Good thermal resistance
- Best mechanical properties
- Chemical resistance to acids and alkalis
- Resistant to animal and vegetable oils and fats

#### Technical specification

- **Material:** IIR (butyl-rubber; isobutylene-isoprene-rubber)
- **Colour:** black or white
- **Shore hardness A:** 60° ±5°
- **Temperature range:** -30 to +100 °C, for a short time +140 °C
- **Ultimate elongation:** >550 %
- **Tensile strength:** >3 N/mm<sup>2</sup>
- **Tear propagation resistance:** >8 N/mm
- **Compression set:** <55 % at +70 °C / 24 h



Item	Inside Ø mm	Outside Ø mm	Density g/cm <sup>3</sup>	Colour	Unit m	Price EURO
28144	3	7	1.6 ±0.2	black	5	54.00
28145	3	7	1.6 ±0.2	black	15	138.00
28146	6	10	1.6 ±0.2	black	5	61.00
28147	6	10	1.6 ±0.2	black	15	154.00
28148	6	14	1.6 ±0.2	black	5	114.00
28149	6	14	1.6 ±0.2	black	15	273.00
28150	8	12	1.6 ±0.2	black	5	71.00
28151	8	12	1.6 ±0.2	black	15	170.00

Item	Inside Ø mm	Outside Ø mm	Density g/cm <sup>3</sup>	Colour	Unit m	Price EURO
28152	10	14	1.6 ±0.2	black	5	96.00
28153	10	14	1.6 ±0.2	black	15	230.00
28154	12	16	1.6 ±0.2	black	5	132.00
28155	12	16	1.6 ±0.2	black	15	318.00
28158	6	12	1.4	white	5	139.00
28159	6	12	1.4	white	15	333.00
28162	8	12	1.4	white	5	129.00
28163	8	12	1.4	white	15	309.00
28166	10	15	1.4	white	5	149.00
28167	10	15	1.4	white	15	357.00
28168	12	18	1.4	white	5	97.00
28169	12	18	1.4	white	15	224.00

### THOMAFLUID®-IIR High-Pressure Steam and Hot Water Tubing

#### Application area

- Power station technology, turbine technology, process engineering, plant technology

#### Product specification

- High-temperature high-pressure tubing
- Saturated steam tubing for superheated steam
- Conveyance of hot material such as steam and hot water
- Good abrasion resistance
- Very good resistance to acids and alkalis

#### Technical specification

- **Material:**  
Liner: IIR (isobutylene-isoprene-rubber)  
Jacket: IIR/EPDM compound
- **Colour:**  
Liner: black, smooth  
Jacket: black, textile imprint, perforated
- **Insert:** double steel insert
- **Temperature range:** -40 to +210 °C
- **Max. operating pressure:** 18 bar
- **Bursting pressure:** 180 bar at +20 °C
- **Resistivity:** <10<sup>9</sup> Ohm
- **Volume resistivity:** <10<sup>9</sup> Ohm
- **Regulations:** meeting EN/ISO 6134 Type 2/A (Norm)
- **Tubing imprint:** EN ISO 6134/2005 - 18 bar - +210 °C - Ohm



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
339996	13	25	18	1	146.00
339997	13	25	18	3	218.00
339998	19	32.5	18	1	198.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
339999	19	32.5	18	3	298.00
340000	25	39.5	18	1	82.00
340001	25	39.5	18	3	216.00
340002	32	48	18	1	108.00
340003	32	48	18	3	292.00
340004	38	54	18	1	128.00
340005	38	54	18	3	344.00
340006	51	69	18	1	172.00
340007	51	69	18	3	464.00

<sup>1</sup> at +20 °C

## NBR Tubing

### THOMAFLUID®-NBR Chemical Tubing

#### Product specification

- Nitrile rubber of highest quality
- Excellent mechanical rubber-elastic properties, also at extreme bending radii
- Best abrasion resistance
- Very good thermal resistance
- Very good resistance to oil, fuels, vegetable and animal oils, silicones, as well as dilute alkalis and acids at room temperature

#### Technical specification

- **Material:** NBR (nitrile rubber / butadiene-acrylonitrile rubber)
- **Colour:** black
- **Shore hardness A:** 70° ±5°
- **Temperature range:** -20 to +100 °C
- **Density:** 1.44 g/cm<sup>3</sup>
- **Tolerances:** ISO 1307, DIN 7715-40



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
340719	3	5	5	30.00
340720	3	5	15	76.00
340721	3	6	5	40.00
340722	3	6	15	106.00
28222	3	7	5	67.00
28223	3	7	15	151.00
12995	3.2	6.4	5	95.00
12996	3.2	6.4	10	174.00
340723	4	6	5	32.00
340724	4	6	15	84.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
24797	4	7	3	39.00
24798	4	7	9	92.00
24799	4	7	15	131.00
28224	4	8	5	75.00
28225	4	8	15	170.00
12997	4.8	9.5	5	146.00
12998	4.8	9.5	10	266.00
24800	5	8	3	41.00
24801	5	8	9	100.00
24802	5	8	15	136.00
28226	5	9	5	85.00
28227	5	9	15	197.00
24803	6	9	3	44.00
24804	6	9	9	113.00
24805	6	9	15	162.00
28228	6	10	5	87.00
28229	6	10	15	197.00
12999	6.4	12.7	3	110.00
13000	6.4	12.7	5	169.00
24809	7	10	3	64.00
24810	7	10	9	126.00
24811	7	10	15	192.00
28230	7	11	5	105.00
28231	7	11	15	218.00
24815	8	12	3	72.00
24816	8	12	9	187.00
24817	8	12	15	223.00
13001	9.5	15.9	3	139.00
13002	9.5	15.9	5	210.00
24818	10	14	3	80.00
24819	10	14	9	208.00
24820	10	14	15	266.00
340725	12	16	5	112.00
340726	12	16	15	288.00
28236	12	17	5	136.00
28237	12	17	15	330.00
282381	13	19	5	148.00
282382	13	19	15	350.00
340729	15	21	5	164.00
340730	15	21	15	404.00
340731	18	24	5	176.00
340732	18	24	15	420.00
340733	20	27	5	226.00
340734	20	27	15	540.00
340735	25	32	5	248.00
340736	25	32	15	578.00
13003	12.7	19	1	67.00
13004	12.7	19	3	167.00
13005	19	25.4	1	85.00
13006	19	25.4	3	231.00

## THOMAFLUID®-NBR Industrial and Chemical Tubing

### Product specification

- Excellent rubber-elastic properties
- Remarkable mechanical loadability
- Good resistance to aging
- Very good temperature resistance
- Resistant to mineral oils, vegetable and animal oils, e.g. colza oil as well as fuels such as kerosine or unleaded petrol

### Technical specification

- **Material:** NBR (butadiene-acrylonitrile rubber), NBR (nitrile rubber)
- **Colour:** black
- **Shore hardness A:** 70° ±5° (DIN 53505)
- **Temperature range:** -30 to +110 °C
- **Tolerance:** DIN ISO 3302-1 E2 (DIN 7715 E2)



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
330105	13	19	4.5	45	5	145.00
330106	13	19	4.5	45	15	345.00
330107	16	23	5.5	50	5	155.00
330108	16	23	5.5	50	15	350.00
330109	19	27	7	75	5	185.00
330110	19	27	7	75	15	415.00
330111	25	33	6.5	60	5	205.00
330112	25	33	6.5	60	15	435.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-High-Flexible-NBR Water Hose - Thin-Walled

### Application area

- Operating technology, water engineering, water drain, irrigation technology, plant construction, petrochemistry, refineries

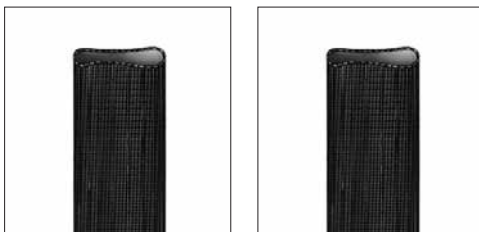
### Product specification

- Flat folding conveying hose
- Extremely robust design
- Extremely loadable due to inserts of high tearing strength
- Suitable for conveyance of air, water, oil and gasoline
- Resistant to ozone and aging

### Technical specification

- **Material:**  
Liner: NBR (butadiene-acrylonitrile-rubber)  
Jacket: PVC (polyvinyl chloride)
- **Colour:**  
Liner: grey  
Jacket: black

- **Temperature range:** -20 to +100 °C
- **Max. operating pressure:** 16 - 25 bar at +20 °C
- **Bursting pressure:** 50 - 75 bar at +20 °C
- **Special features:** high-quality NBR/PVC compound, with press-fitted textile insert in an extrusion process; outer longitudinal ribs guarantee highest abrasion resistance.



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Bursting pressure <sup>1</sup> bar	Unit m	Price EURO
340301	19.5	23.5	25	75	3	92.00
340302	19.5	23.5	25	75	5	138.00
340303	25.5	29.5	25	75	3	98.00
340304	25.5	29.5	25	75	5	148.00
340305	32	36	20	60	3	122.00
340306	32	36	20	60	5	182.00
340307	38	42	16	50	3	124.00
340308	38	42	16	50	5	186.00
340309	52	56.4	16	50	3	146.00
340310	52	56.4	16	50	5	218.00
340311	65	69.4	16	50	3	172.00
340312	65	69.4	16	50	5	258.00
340313	76	81	16	50	3	206.00
340314	76	81	16	50	5	308.00
340315	90	95.6	16	50	1	96.00
340316	90	95.6	16	50	3	258.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR/PVC Pressure Inlet Hose for Washing Machines

### Application area

- Inlet hose for washing machines
- Suitable for dishwashers

### Product specification

- Robust pressure tubing
- Flexible design
- Resistant to weather and aging

### Technical specification

- **Material:**  
Liner: NBR (butadiene-acrylonitrile-rubber)  
Jacket: PVC (polyvinyl chloride)
- **Colour:**  
Liner: black, smooth  
Jacket: grey, smooth
- **Temperature range:** -20 to +95 °C
- **Max. operating pressure:** 30 bar at +25 °C
- **Bursting pressure:** 90 bar at +25 °C
- **Tubing imprint:** 95 bar (max.) - PB 90 bar at +25 °C



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340056	10	17	30	5	58.00
340057	10	17	30	10	106.00
340058	13	20	30	5	70.00
340059	13	20	30	10	126.00

<sup>1</sup> at +20 °C

### THOMAFUID®-NBR Double-Wall Jacket Tubing for Hot Fluids

#### Product specification

- High-quality rubber tubing for conveyance of hot fluids or mineral oil
- Good abrasion resistance
- Good elastic material properties
- Best resistance to mineral oil

#### Technical specification

##### • Material:

Liner: NBR (butadiene-acrylonitrile rubber)

Jacket: CR (chloroprene rubber)

##### • Colour: black

• **Temperature range:** -20 to +180 °C, for a short time +220 °C

• **Bursting pressure:** 40 bar

• **Insert:** synthetic fabric insert

• **Design:** inside and outside smooth

• **Marking:** textile imprint



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12624	19	31	8	140	1	69.00
12625	19	31	8	140	3	190.00

<sup>1</sup> at +20 °C

### THOMAFUID®-NBR Pressure Tubing for Oil and Gasoline with Self-Extinguishing Jacket

#### Application area

- Special fuel tubing for boats, refineries, operating technology, chemical engineering

#### Product specification

- Fire-resistant and self-extinguishing jacket
- Good mechanical stability
- Resistant to weather and aging, good abrasion resistance
- Material combination matched to mineral oil products with a maximum aromatics content up to 50 %
- Suitable for unleaded fuels, E10 and biodiesel

#### Technical specification

• **Material:** NBR (butadiene-acrylonitrile-rubber)

• **Colour:** black

• **Temperature range:** -20 to +80 °C

• **Max. operating pressure:** 3.5 - 8 bar at +20 °C

• **Design:** inside and outside smooth

• **Special features:** jacket fire-resistant and self-extinguishing

• **Regulations:** SAE J 1527 : 2004-A1 R1; ISO 7840 : 2004-A1 CE; DIP 128405/MM/1 0474 R.I.N.A



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Bursting pressure bar	Unit m	Price EURO
340831	6	15	8	14	5	114.00
340832	6	15	8	14	10	192.00
340833	8	16	8	14	5	130.00
340834	8	16	8	14	10	222.00
340835	10	18	8	14	5	142.00
340836	10	18	8	14	10	242.00
340837	12	21	3.5	10	5	176.00
340838	12	21	3.5	10	10	298.00
340839	16	26	3.5	10	5	212.00
340840	16	26	3.5	10	10	360.00
340841	19	29	3.5	10	5	240.00
340842	19	29	3.5	10	10	408.00
340843	25	35	3.5	10	5	352.00
340844	25	35	3.5	10	10	594.00

<sup>1</sup> at +20 °C

### THOMAFUID®-NBR Pressure Tubing for Gasoline and Oil - Antistatic

#### Application area

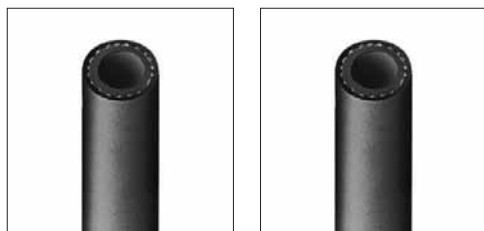
- Mineral oil industry, process technology, machine engineering and engine construction, operating and garage technology, apparatus construction

**Product specification**

- Use for mineral oil products with a maximum aromatics content up to 50 %
- Very high abrasion resistance
- Good resistance to ozone, aging, and weather

**Technical specification**

- **Material:**  
Liner: NBR (butadiene-acrylonitrile-rubber)  
Jacket: NBR/SBR compound
- **Colour:** black, smooth
- **Temperature range:** -40 to +80 °C
- **Design:** textile fabric as pressure support
- **Max. operating pressure:** 25 bar at +20 °C
- **Bursting pressure:** 75 bar at +20 °C
- **Leakage resistance:** <10<sup>8</sup> Ohm
- **Tubing imprint:** oil tubing, PN 25 bar, Ohm



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340230	6	14	25	5	94.00
340231	6	14	25	10	176.00
340232	8	16	25	5	118.00
340233	8	16	25	10	220.00
340234	10	18	25	5	130.00
340235	10	18	25	10	240.00
340236	13	21	25	5	152.00
340237	13	21	25	10	280.00
340238	16	25	25	3	134.00
340239	16	25	25	5	208.00
340240	19	29	25	3	154.00
340241	19	29	25	5	238.00
340242	25	36	25	3	194.00
340243	25	36	25	5	306.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-NBR Fuel Tubing - DIN 73379, type: B**

**Application area**

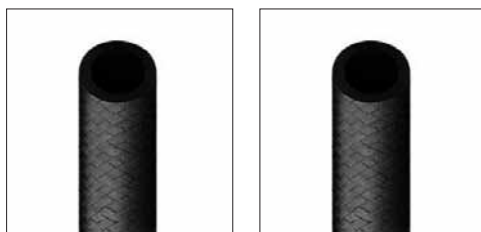
- Engine construction, automotive engineering, refrigerator technology, mineral oil industry, plant construction, chemical engineering, process engineering

**Product specification**

- Fuel resistant chemical and hydraulic tubing according to DIN 73379
- Resistant to fuels, fluids on mineral oil and glycol base, lubricants, animal oils, silicones, cooling water as well as diluted acids and alkalis at room temperature.
- Good abrasion resistance
- Good resistance to aging

**Technical specification**

- **Material:** NBR (butadiene-acrylonitrile-rubber)
- **Colour:**  
Liner: black  
Jacket: with black textile braiding
- **Temperature range:** -40 to +90 °C, for a short period +120 °C
- **Medium temperatures:**  
Fuels: +40 °C (benzene content up to max. 50 %)  
Premium fuels: +40 °C  
Diesel fuels: +80 °C  
Universal fuels: +40 °C  
Cooling materials: +90 °C (glycols, glysantine etc.)  
Water: +90 °C  
Air: +80 °C  
Aqueous solutions: +80 °C (without oxid. materials)  
Resistance to cold: -40 °C
- **Max. operating pressure:** 15 bar at +20 °C
- **Bursting pressure:** 60 bar at +20 °C
- **Regulations:** DIN 73379 March 1982 Type: B
- **Tubing imprint:** DIN 73379



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340162	3.2	7	15	5	68.00
340163	3.2	7	15	10	126.00
340164	3.5	7.5	15	5	76.00
340165	3.5	7.5	15	10	144.00
340166	4	9	15	5	82.00
340167	4	9	15	10	152.00
340168	4.5	9.5	15	5	84.00
340169	4.5	9.5	15	10	156.00
340170	5	10	15	5	90.00
340171	5	10	15	10	170.00
340172	5.5	10.5	15	5	94.00
340173	5.5	10.5	15	10	156.00
340174	6	11	15	5	96.00
340175	6	11	15	10	178.00
340176	7	12	15	5	108.00
340177	7	12	15	10	202.00
340178	7.5	12.5	15	5	110.00
340179	7.5	12.5	15	10	204.00
340180	8	13	15	5	112.00
340181	8	13	15	10	208.00
340182	9	14	15	5	122.00
340183	9	14	15	10	232.00
340184	11.5	17	15	5	154.00
340185	11.5	17	15	10	290.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR Suction and Pressure Tubing for Gasoline and Oil - Antistatic

### Application area

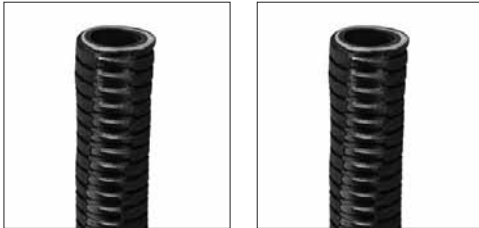
- Operating technology, decanting stations, refineries, process technology, chemical engineering

### Product specification

- Very flexible suction and pressure tubing, corrugated
- Very small bending radius
- Resistant to mineral oil products (maximum aromatics content of 50 %)
- Good abrasion resistance, high flame resistance
- Good resistance to ozone, aging, and weather

### Technical specification

- **Material:**  
Liner: NBR (butadiene-acrylonitrile-rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -20 to +85 °C, for a short period +110 °C
- **Insert:** with steel wire spiral
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C
- **Leakage resistance:** <10<sup>6</sup> Ohm
- **Vacuum:** 0.8 bar at +20 °C
- **Design:** inside smooth, outside corrugated, textile imprint
- **Tubing imprint:** NBR-OIL-Suction/Pressure, DN 10 bar, Ohm



Item	I-Ø	O-Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
340244	25	35	10	800	75	1	70.00
340245	25	35	10	800	75	3	192.00
340246	32	42	10	800	100	1	88.00
340247	32	42	10	800	100	3	244.00
340248	38	48	10	800	115	1	102.00
340249	38	48	10	800	115	3	274.00
340250	50	62	10	800	135	1	122.00
340251	50	62	10	800	135	3	332.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR Double-Wall Jacket Industrial Tubing - metric

### Product specification

- Oil and gasoline (unleaded) tubing of highest quality
- Technically usable as straight connecting piece for vibration neutralization and as correcting tube for compensating imprecisions of assembling.
- Best elastic behaviour and high abrasion resistance
- Resistance to weather and ozone

### Technical specification

- **Material:**  
Liner: NBR (butadiene-acrylonitrile rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -25 to +100 °C, for a short time +120 °C
- **Bursting pressure:** 3-fold operating pressure
- **Insert:** two synthetic fabrics
- **Design:** inside and outside smooth
- **Marking:** white longitudinal stripe



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	bar	m	EURO
12808	6	14	50	5	151.00
12809	6	14	50	10	274.00
12810	8	16	60	5	149.00
12811	8	16	60	10	297.00
12812	10	18	60	3	116.00
12813	10	18	60	5	174.00
12814	13	22	60	3	128.00
12815	13	22	60	5	197.00
12816	15	26	60	3	156.00
12817	15	26	60	5	238.00
12818	16	27	60	3	156.00
12819	16	27	60	5	238.00
12820	19	31	50	3	182.00
12821	19	31	50	5	279.00
12822	22	34	45	1	85.00
12823	22	34	45	3	231.00
12824	25	37	40	1	90.00
12825	25	37	40	3	233.00
12826	28	36	12	1	80.00
12827	28	36	12	3	218.00
12828	30	38	12	1	80.00
12829	30	38	12	3	218.00
12830	32	40	12	1	82.00
12831	32	40	12	3	223.00
12832	35	45	10	1	90.00
12833	35	45	10	3	246.00
12834	38	48	10	1	92.00
12835	38	48	10	3	254.00
12836	40	50	10	1	95.00
12837	40	50	10	3	269.00
12838	42	52	10	1	103.00
12839	42	52	10	3	284.00
12840	45	55	10	1	105.00
12841	45	55	10	3	289.00
12842	48	58	9	1	105.00
12843	48	58	9	3	289.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
12844	50	60	9	1	105.00
12845	50	60	9	3	289.00
12846	55	65	8	1	113.00
12847	55	65	8	3	305.00
12848	60	70	7	1	121.00
12849	60	70	7	3	325.00
12850	65	75	7	1	126.00
12851	65	75	7	3	335.00
12852	70	80	7	1	141.00
12853	70	80	7	3	381.00
12854	75	85	7	1	144.00
12855	75	85	7	3	389.00
12856	80	92	7	1	174.00
12857	80	92	7	3	269.00
12858	85	97	7	1	187.00
12859	85	97	7	2	338.00
12860	90	102	6	1	197.00
12861	90	102	6	2	356.00
12862	100	112	6	1	223.00
12863	100	112	6	2	399.00
12864	110	122	5	1	243.00
12865	110	122	5	2	438.00
12866	120	132	5	1	271.00
12867	120	132	5	2	486.00
12868	127	139	5	1	320.00
12869	140	154	4	1	371.00
12870	160	174	4	1	427.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR Double-Wall Jacket Industrial Tubing - imperial

#### Product specification

- Gasoline (unleaded) and oil resistant pressure tubing meeting highest requirements
- Good abrasion resistance and excellent elastic behaviour
- Resistance to weather and ozone protects the jacket

#### Technical specification

- **Material:**  
Liner: NBR (nitrile rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -40 to +100 °C
- **Insert:** two twisted polyester fabrics
- **Marking:** imprint of dimension, yellow



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12873	6.4	14.3	20	20	5	121.00
12874	6.4	14.3	20	20	10	218.00
12875	8	15.9	20	25	5	126.00
12876	8	15.9	20	25	10	228.00
12877	9.5	17.5	20	30	5	141.00
12878	9.5	17.5	20	30	10	259.00
12879	12.7	21.4	20	50	3	100.00
12880	12.7	21.4	20	50	5	151.00
12881	15.9	24.6	20	60	3	131.00
12882	15.9	24.6	20	60	5	197.00
12883	19	29.4	15	90	3	156.00
12884	19	29.4	15	90	5	238.00
12885	25.4	36.1	15	120	1	75.00
12886	25.4	36.1	15	120	3	195.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR Industrial Pressure Tubing without Steel Coil

#### Product specification

- THOMAFLUID®-tubing for most solvents, paints (also water based), water lacquer, petroleum products, alcohols, aldehydes, esters and ketones.
- In short term operation also suitable for aromatic and chlorinated hydrocarbons.
- Open steam cleaning up to 30 min. at max. +130 °C
- Good abrasion resistance
- Good resistance to aging and weather

#### Technical specification

- **Material:**  
Liner: NBR special compound, smooth, seamless, antistatic, conductive  
Jacket: NBR-PVC-special-compound, electrically conductive (from DN 63 chloroprene)
- **Insert:** textile braids
- **Colour:** inside blue, outside black
- **Temperature range:** -20 up to +80 °C, for a short time +100 °C
- **Marking:** „Blue-Ring“



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
83196	9	18	16	50	1	76.00
83197	9	18	16	50	3	182.00
83198	9	18	16	50	5	254.00

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
83199	13	22	16	70	1	80.00
83200	13	22	16	70	3	185.00
83201	13	22	16	70	5	264.00
83202	19	31	16	100	1	90.00
83203	19	31	16	100	3	195.00
83204	19	31	16	100	5	271.00
83205	25	37	16	150	1	116.00
83206	25	37	16	150	3	210.00
83207	25	37	16	150	5	310.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR Industrial Suction and Pressure Tubing

#### Application area

- Basic materials industry, process technology, process engineering, chemical industry

#### Product specification

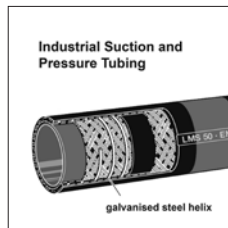
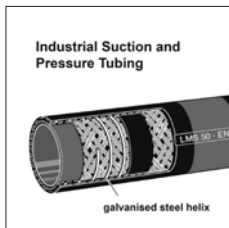
- Suction and pressure tubing
- Fitted with integrated steel coil
- Fully synthetic tubing material
- For most solvents, paints (also water based), water lacquer, petroleum products, alcohols, aldehydes, esters and ketones.
- In short term operation also suitable for aromatic and chlorinated hydrocarbons.
- Open steam cleaning up to 30 min. at max. +130 °C
- Good abrasion resistance
- Good resistance to aging and weather

#### Technical specification

##### • Material:

Liner: NBR special compound, smooth, seamless, antistatic, conductive  
 Jacket: NBR-PVC-special-compound, electrically conductive (from DN 63 chloroprene)

- **Insert:** textile braids, additionally with galvanised steel helix
- **Colour:** inside blue, outside black
- **Temperature range:** -20 up to +80 °C, for a short time +100 °C
- **Marking:** „Blue-Ring“



Item	I-Ø	O-Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
83172	25	37	16	900	90	1	133.00
83173	25	37	16	900	90	3	254.00
83174	25	37	16	900	90	5	376.00

Item	I-Ø	O-Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
83175	32	44	16	900	100	1	154.00
83176	32	44	16	900	100	3	284.00
83177	32	44	16	900	100	5	420.00
83178	38	51	16	900	110	1	177.00
83179	38	51	16	900	110	3	320.00
83180	38	51	16	900	110	5	471.00
83184	50	66	16	900	140	1	238.00
83185	50	66	16	900	140	3	427.00
83186	50	66	16	900	140	5	635.00
83187	63	79	16	900	180	1	328.00
83188	63	79	16	900	180	3	586.00
83189	63	79	16	900	180	5	599.00
83190	75	91	16	800	200	1	369.00
83191	75	91	16	800	200	3	626.00
83192	75	91	16	800	200	5	972.00
83193	100	116	16	800	400	1	507.00
83194	100	116	16	800	400	3	821.00
83195	100	116	16	800	400	5	1,335.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR Double-Wall Jacket Suction and Pressure Tubing

#### Product specification

- Oil and gasoline (unleaded) resistant suction and pressure tubing of highest quality
- Outstandingly robust but flexible type
- Inside super smooth design, ensuring small pressure losses
- Fitting with pinch clamps without any problems
- High abrasion resistance
- Resistance to ozone and weather

#### Technical specification

##### • Material:

Liner: NBR (nitrile rubber)  
 Jacket: CR (chloroprene rubber)

- **Colour:** black
- **Temperature range:** -20 to +80 °C, for a short time +100 °C
- **Bursting pressure:** 3-fold operating pressure
- **Insert:** min. two rayoncord fabrics and one steel wire spiral
- **Vacuum strength:** up to ID 125 mm = 80 %; from ID 150 mm = 60 %
- **Design:** inside smooth, outside ribbed
- **Marking:** yellow longitudinal stripe





Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12773	20	29	18	120	1	57.00
12774	20	29	18	120	3	151.00
12775	22	31	17	140	1	59.00
12776	22	31	17	140	3	154.00
49240	25	34	15	140	1	54.00
49241	25	34	15	140	3	126.00
49242	30	39	13	150	1	57.00
49243	30	39	13	150	3	136.00
49244	32	41	12	180	1	59.00
49245	32	41	12	180	3	144.00
49246	35	44	12	180	1	62.00
49247	35	44	12	180	3	149.00
49248	40	50	10	190	1	67.00
49249	40	50	10	190	3	162.00
49250	45	55	10	200	1	77.00
49251	45	55	10	200	3	182.00
49252	50	63	10	240	1	82.00
49253	50	63	10	240	3	197.00
49254	55	68	10	300	1	92.00
49255	55	68	10	300	3	220.00
49256	60	73	10	310	1	100.00
49257	60	73	10	310	3	236.00
49258	65	79	10	325	1	110.00
49259	65	79	10	325	3	261.00
49260	70	84	10	340	1	118.00
49261	70	84	10	340	3	279.00
49262	75	90	10	350	1	126.00
49263	75	90	10	350	3	304.00
12804	80	95	10	380	1	159.00
12805	90	106	10	420	1	187.00
12806	100	116	10	450	1	202.00
12807	125	144	10	680	1	325.00
128071	150	172	10	900	1	452.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR/PVC Suction and Pressure Universal Chemical Tubing

#### Application area

- Pumping systems, operating technology, mineral oil supply, chemical engineering, refineries

#### Product specification

- Rigid design
- Resistant to weather and aging
- Resistant to gasoline, oil, diluted acids and alkalis
- Robust and impact-resistant

#### Technical specification

- **Material:** NBR/PVC compound
- **Colour:** black
- **Temperature range:** -15 to +65 °C
- **Max. operating pressure:** 5 - 8 bar at +20 °C
- **Vacuum:** 0.8 bar at +20 °C
- **Insert:** with embedded steel wire spiral



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Unit	Price
	mm	mm	bar	mbar	m	EURO
340222	25	33	8	800	1	54.00
340223	25	33	8	800	3	140.00
340224	32	40	7	800	1	66.00
340225	32	40	7	800	3	182.00
340226	38	47	7	800	1	72.00
340227	38	47	7	800	3	198.00
340228	51	62	5	800	1	98.00
340229	51	62	5	800	3	270.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-NBR Drinking Water Tubing - KTW/DVGW

#### Application area

- Food technology, drinking water supply, beverage industry, industrial kitchens, emergency supply lines, camping and caravan equipment

#### Product specification

- High flexible drinking and ultrapure water tubing for cold and warm water
- Liner is physiologically safe, it does not contain any extractable constituents
- Tasteless and odourless
- Approval according to KTW and DVGW
- Food quality
- High abrasion resistance
- Jacket is UV-, oil and grease resistant

#### Technical specification

##### • Material:

- Liner: Special transparent Plastomer
- Jacket: NBR (butadiene-acrylonitrile-rubber)

##### • Colour:

- Liner: transparent, mirror-smooth
- Jacket: blue, fabric-pattern, smooth

- **Temperature range:** -20 to +90 °C, steam strippable up to +130 °C
- **Insert:** synthetic fabric
- **Max. operating pressure:** 20 bar at +20 °C
- **Regulations:** KTW Cat. A and DVGW-W270
- **Marking:** KTW „A“ UND DVGW-W270 GEPRÜFT



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340088	13	20.2	20	1	88.00
340089	13	20.2	20	3	206.00
340090	19	27.4	20	1	92.00
340091	19	27.4	20	3	232.00
340092	25	34	20	1	98.00
340093	25	34	20	3	258.00

<sup>1</sup> at +20 °C

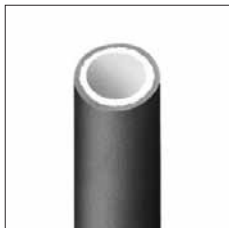
### THOMAFLUID®-NBR Tubing for Beverages

#### Product specification

- Pressure conveying tubing
- Food tubing for conveyance of fat-containing food
- Very high abrasion resistance, robust

#### Technical specification

- **Material:** NBR (nitrile rubber), smooth
- **Insert:** synthetic fabric
- **Colour:** inside light-coloured, outside blue
- **Max. operating pressure:** 10 bar
- **Temperature range:** -20 to +90 °C, for a short time +130 °C
- **Regulations:** material liner according to FDA for food contact



Item	Inside Ø mm	Outside Ø mm	Min. bending radius mm	Bursting pressure bar	Unit m	Price EURO
12421	13	23	95	60	5	123.00
12422	13	23	95	60	10	202.00
12423	16	26	115	60	5	141.00
12424	16	26	115	60	10	233.00
12425	19	31	150	60	5	162.00
12426	19	31	150	60	10	266.00
12427	25	39	200	60	5	208.00
12428	25	39	200	60	10	341.00
12429 <sup>1</sup>	32	48	200	30	3	241.00
12430 <sup>1</sup>	32	48	200	30	5	325.00
12431 <sup>1</sup>	40	58	240	30	1	118.00
12432 <sup>1</sup>	40	58	240	30	3	269.00
12433 <sup>1</sup>	50	70	300	30	1	141.00
12434 <sup>1</sup>	50	70	300	30	3	341.00

<sup>1</sup> Jacket: with textile imprint

### THOMAFLUID®-High-Tech-NBR Food Tubing - FDA

#### Application area

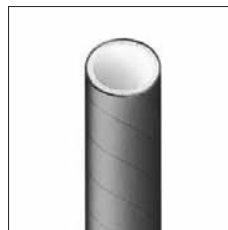
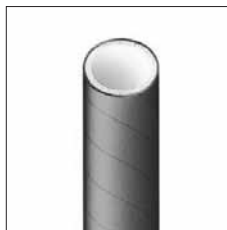
- Pharmaceutical industry, soft drink industry, food industry, dairy industry

#### Product specification

- Resistant to animal and vegetable greases and oils.
- Resistance to alcohol up to 15 %.
- Completely smooth inner surface ensures optimal emptying of residual charge and reliable cleaning at change of charge.
- Liner is physiologically absolutely safe, it does not contain any extractable constituents, thus the tubing is best suited for conveyance of high-quality products.
- Tasteless and odorless.
- Resistant to weather and aging.
- Steam strippable against bacteria up to max. +120 °C or washable with hot water and ordinary household cleaners.

#### Technical specification

- **Material:**  
Liner: NBR (butadiene-acrylonitrile rubber)  
Jacket: EPDM/NBR compound
- **Colour:**  
Liner: white, mirror-smooth  
Jacket: blue, textile imprint
- **Temperature range:** -25 to +90 °C, for a short time for cleaning +120 °C (30 min.)
- **Max. operating pressure:** 10 bar
- **Bursting pressure:** 30 bar
- **Regulations:** FDA 21 CFR §177.2600, BfR XXI Cat. 2
- **Tubing imprint:** milk tubing, PN 10 bar, FDA, food symbol



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340008	32	44	10	1	88.00
340009	32	44	10	3	236.00
340010	38	52	10	1	108.00
340011	38	52	10	3	288.00
340012	51	67	10	1	140.00
340013	51	67	10	3	374.00
340014	63	83	10	1	194.00
340015	63	83	10	3	524.00
340284	76	96	10	1	240.00
340285	76	96	10	3	648.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-High-Tech-NBR Suction and Pressure Food Tubing - FDA

### Application area

- Pharmaceutical industry, soft drink industry, food technology, dairy industry

### Product specification

- Resistant to animal and vegetable oils and fats.
- Resistance to alcohol up to 15 %.
- Completely smooth inner surface ensures optimal emptying of residual charge and reliable cleaning at change of charge.
- Liner is physiologically absolutely safe, it does not contain any extractable constituents, thus the tubing is best suited for conveyance of high-quality products.
- Odourless and tasteless.
- Resistant to weather and aging.
- steam strippable against bacteria up to max. +120 °C or washable with hot water and ordinary household cleaners.

### Technical specification

#### • Material:

Liner: NBR (butadiene-acrylonitrile rubber)

Jacket: EPDM/NBR compound

#### • Colour:

Liner: white, mirror-smooth

Jacket: blue, textile imprint

#### • Insert: steel wire spiral

- **Temperature range:** -25 to +90 °C, for a short time for cleaning +120 °C (30 min.)

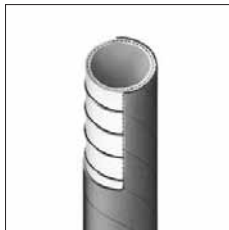
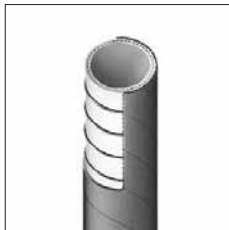
- **Max. operating pressure:** 10 bar

- **Bursting pressure:** 30 bar

- **Vacuum:** 900 - 800 mbar

- **Regulations:** FDA 21 CFR §177.2600, BfR XXI Cat. 2

- **Tubing imprint:** milk tubing, PN 10 bar, FDA, food symbol



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Vacuum <sup>1</sup> mbar	Unit m	Price EURO
340016	32	44	10	900	1	104.00
340017	32	44	10	900	3	278.00
340018	38	52	10	900	1	124.00
340019	38	52	10	900	3	330.00
340020	51	65	10	900	1	152.00
340021	51	65	10	900	3	404.00
340022	63	79	10	900	1	206.00
340023	63	79	10	900	3	556.00
340024	76	92	10	800	1	382.00
340025	76	92	10	800	3	1,030.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR Spray Painting Tubing

### Product specification

- Flexible, light-weighted pressure tubing
- Good abrasion resistance
- Best elastic material properties
- As spray painting tubing predestined for alkyd resin varnish, emulsion paints, natural spirit varnish and polyester paints and varnish (two-parts compounds).

### Technical specification

- **Material:** NBR (butadiene-acrylonitrile rubber)

- **Colour:** black

- **Temperature range:** -20 to +80 °C

- **Bursting pressure:** 100 bar

- **Electrical characteristics:** antistatic interior and exterior, R <10<sup>6</sup> Ohm

- **Insert:** synthetic fabrics

- **Design:** inside and outside smooth

- **Marking:** grey longitudinal stripes



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12767	9	16	25	45	5	110.00
12768	9	16	25	45	10	202.00
12769	9	16	25	45	15	259.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR Antista Tank Truck and Chemical Hose

### Application area

- Tank truck and petrol station hose, chemical engineering, mineral oil industry, process technology

### Product specification

- Suction, pressure and vacuum hose
- With integrated steel spiral
- Good resistance to oils and fuels
- Best abrasion resistance
- Good resistance to aging and weather



**Technical specification**

- **Material:**  
Liner: NBR (nitrile rubber), smooth  
Jacket: NBR/SBR-compound, smooth, textile imprint  
Insert: synthetic fabric + 1 steel wire coil
- **Electr. feature:** jacket electrically conductive, R <10<sup>6</sup> Ohm
- **Colour:** black
- **Temperature range:** -50 to +70 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C
- **Vacuum strength:** 80 % at +20 °C
- **Design:** inside and outside smooth; textile imprint

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
10018	32	42	10	190	1	69.00
10019	32	42	10	190	3	161.00
10020	38	51	10	240	1	85.00
10021	38	51	10	240	3	205.00
10022	50	64	10	300	1	95.00
10023	50	64	10	300	3	223.00

<sup>1</sup> at +20 °C

**THOMAFUID®-High-Chem-NBR Petrol Pump Hose - Antistatic**

**Application area**

- Tapping points at petrol filling stations, mineral oil industry, petroleum processing

**Product specification**

- Use for mineral oil products with a maximum aromatics content up to 60 %
- Use for conveyance of biodiesel and E10
- Very good abrasion resistance
- Good resistance to ozone, aging, and weather

**Technical specification**

- **Material:**  
Liner: NBR (nitrile rubber)  
Jacket: CR (chloroprene rubber)
- **Colour:** black
- **Temperature range:** -20 to +55 °C
- **Insert:** single-layer textile fabric twisted with stranded copper wire
- **Max. operating pressure:** 16 bar at +20 °C
- **Bursting pressure:** 48 bar at +20 °C
- **Design:** inside and outside smooth, antistatic, non-marking
- **Leakage resistance:** <10<sup>6</sup> Ohm
- **Regulations:** EN 1360 - 2005 Typ 1 und TRbF131, Teil 2 § 5.5
- **Tubing imprint:** EN 1360 - 16 bar -



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	bar	m	EURO
340216	15	25	16	3	82.00
340217	15	25	16	5	138.00
340218	19	31	16	3	160.00
340219	19	31	16	5	244.00
340220	25	37	16	3	182.00
340221	25	37	16	5	268.00

<sup>1</sup> at +20 °C

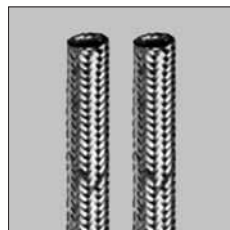
**THOMAFUID®-NBR Low-Pressure Chemical Tubing - metallic**

**Product specification**

- Fuel resistant chemical and hydraulic tubing according to DIN 73379
- Resistant to fluids on mineral oil and glycol base, lubricants, vegetable and animal oils, silicones, dilute acids and alkalis at room temperature, cooling water, and compressed air.
- Good abrasion resistance, good thermal resistance

**Technical specification**

- **Material:**  
Liner: NBR (butadiene-acrylonitrile rubber)  
Jacket: pressure support made of zinc-plated steel wire braiding with marking thread
- **Colour:** metallic
- **Temperature range:** -30 to +90 °C



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
13127	4.5	9	20	25	5	67.00
13128	4.5	9	20	25	10	126.00
13129	5.6	10.5	20	30	5	75.00
13130	5.6	10.5	20	30	10	144.00
13131	7.5	12.5	15	40	5	82.00
13132	7.5	12.5	15	40	10	156.00
13133	9.5	14.5	15	50	5	90.00
13134	9.5	14.5	15	50	10	167.00
13135	11.8	17.5	10	70	5	105.00
13136	11.8	17.5	10	70	10	195.00
13137	15.3	22	15	80	5	133.00
13138	15.3	22	15	80	10	243.00
13139	17	26	10	100	5	177.00
13140	17	26	10	100	10	292.00
13141	22	29	10	150	3	151.00
13142	22	29	10	150	5	228.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR/PVC High-Pressure Water Tubing

### Application area

- Nitrogen tubing
- Conveying tubing in pest control
- Process line in chemical and process engineering

### Product specification

- High pressure tubing
- Extreme mechanical stability
- Resistant to weather and aging
- Extremely low-stretch due to aramid insert
- Highest abrasion resistance

### Technical specification

#### • Material:

Liner: NBR/PVC  
Jacket: PUR/PVC

- **Colour:** black
- **Temperature range:** -20 to +70 °C
- **Max. operating pressure:** 60 bar at +20 °C
- **Bursting pressure:** 180 bar at +20 °C
- **Tubing imprint:** PN 60 - PB 180 bar



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340038	10	19	60	5	88.00
340039	10	19	60	10	158.00
340040	13	24	60	5	142.00
340041	13	24	60	10	248.00
340042	19	31	60	3	128.00
340043	19	31	60	5	192.00
340044	25	38	60	3	176.00
340045	25	38	60	5	266.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR/CSM High-Pressure Chemical Tubing - black



### Product specification

- Resistant to fluids on mineral oil and glycol base, lubricants, motor lubricating oils, diesel fuels, vegetable and animal oils, silicones, dilute acids and alkalis at room temperature, cooling water, compressed air.
- Good thermal resistance.
- Jacket is distinguished by good abrasion and heat resistance, high flame resistance, and excellent resistance to ozone, aging, and weather.

### Technical specification

#### • Material:

Liner: NBR (butadiene-acrylonitrile rubber)  
Jacket: CSM (chlorosulfonated polyethylene, with textile imprint)

- **Colour:** black
- **Temperature range:** -40 to +125 °C, for a short time +140 °C
- **Insert:** single textile fabric

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
13146	4	10	75	30	5	86.00
13147	4	10	75	30	10	156.00
13148	5	11	70	35	5	90.00
13149	5	11	70	35	10	162.00
13150	6	12	65	40	5	96.00
13151	6	12	65	40	10	168.00
13152	8	14	55	50	5	108.00
13153	8	14	55	50	10	196.00
13154	9	15	50	55	5	128.00
13155	9	15	50	55	10	230.00
13156	10	16	50	60	5	150.00
13157	10	16	50	60	10	270.00
13160	12	19	60	60	3	134.00
13161	12	19	60	60	5	198.00
13162	15	23	40	90	3	130.00
13163	15	23	40	90	5	198.00
13164	18	26	35	110	3	172.00
13165	18	26	35	110	5	256.00
13166	22	31	33	120	1	100.00
13167	22	31	33	120	3	270.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-NBR Double-Wall Jacket High-Pressure Chemical Tubing, textile braid insert

### Product specification

- High-pressure hydraulic tubing for conveyance of liquid media on mineral and glycol base, mineral and vegetable lubricants, compressed air, cooling water, motor lubricating oils, HD-oils, diesel fuels etc.
- Good thermal resistance
- Good abrasion resistance
- High flame resistance
- Good resistance to ozone, aging, and weather

### Technical specification

#### • Material:

Liner: NBR (butadiene-acrylonitrile rubber)  
Jacket: CR (chloroprene rubber)

- **Colour:** black
- **Temperature range:** -40 to +100 °C; compressed air: up to +70 °C
- **Insert:** textile braiding
- **Bursting pressure:** approx. 4fold dynamic operating pressure
- **Regulations:** DIN EN 854; DIN 20021



Item	I-Ø	O-Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Type <sup>2</sup>	Unit	Price
	mm	mm					
13007	4.8	11.8	80	35	2TB	5	113.00
13008	4.8	11.8	80	35	2TB	10	208.00
13009	6.4	13.4	75	40	2TB	5	118.00
13010	6.4	13.4	75	40	2TB	10	218.00
13011	7.9	14.9	68	50	2TB	5	123.00
13012	7.9	14.9	68	50	2TB	10	225.00
13013	9.5	16.5	63	60	2TB	5	128.00
13014	9.5	16.5	63	60	2TB	10	236.00
13015	12.7	19.7	58	70	2TB	5	146.00
13016	12.7	19.7	58	70	2TB	10	266.00
13017	15.9	23.9	50	90	2TB	3	118.00
13018	15.9	23.9	50	90	2TB	5	179.00
13019	19	27	45	110	2TB	3	126.00
13020	19	27	45	110	2TB	5	192.00
13021	25.4	34.4	40	150	2TB	3	172.00
13022	25.4	34.4	40	150	2TB	5	264.00
13023	31.8	41	35	170	2TB	1	85.00
13024	31.8	41	35	170	2TB	3	223.00
13027	6.4	14.4	145	45	3TB	5	141.00
13028	6.4	14.4	145	45	3TB	10	259.00
13029	7.9	16.9	130	55	3TB	5	144.00
13030	7.9	16.9	130	55	3TB	10	284.00
13031	9.5	18.5	110	70	3TB	3	108.00
13032	9.5	18.5	110	70	3TB	5	162.00
13033	12.7	21.7	93	85	3TB	3	131.00
13034	12.7	21.7	93	85	3TB	5	200.00
13035	15.9	25.9	80	105	3TB	3	141.00
13036	15.9	25.9	80	105	3TB	5	215.00
13037	19	29	70	130	3TB	3	169.00
13038	19	29	70	130	3TB	5	259.00
13039	25.4	35.9	55	150	3TB	1	77.00
13040	25.4	35.9	55	150	3TB	3	190.00
13041	31.8	42.3	45	190	3TB	1	90.00
13042	31.8	42.3	45	190	3TB	3	241.00
13043	38.1	49.6	40	240	3TB	1	110.00
13044	50.8	63.1	33	300	3TB	1	197.00

<sup>1</sup> at +20 °C <sup>2</sup> 2TB = 2 textile braidings; 3TB = textile braidings

## NR Tubing

### THOMAFLUID®-Latex Tubing

#### Application area

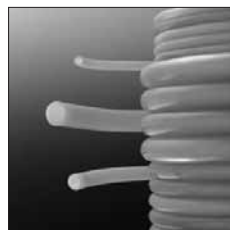
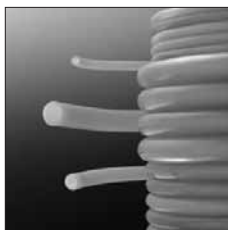
- Chemical engineering, operating technology, plant construction

#### Product specification

- Rubber-elastic material made of natural rubber
- Very high elasticity, very high abrasion resistance
- High tensile strength, good resistance to aging

#### Technical specification

- **Material:** NR (natural rubber)
- **Colour:** amber-coloured
- **Shore hardness A:** 40° ±5°
- **Density:** 0.97 g/cm<sup>3</sup>
- **Stretching:** approx. 800 %
- **Temperature range:** -30 to +70 °C
- **Sterilization:** steam (+136 °C)
- **Tolerance:** ISO DIN 3302-1E2



Item	Inside Ø	Outside Ø	Unit	Price
	mm	mm	m	EURO
28177	2	4	5	46.00
28178	2	4	10	73.00
28179	2	6	5	81.00
28180	2	6	10	129.00
28181	3	5	5	66.00
28182	3	5	10	106.00
28183	3	6	5	54.00
28184	3	6	10	86.00
28185	3	7	5	64.00
28186	3	7	10	102.00
28187	4	6	5	62.00
28188	4	6	10	99.00
28189	4	7	5	62.00
28190	4	7	10	102.00
28191	4	8	5	75.00
28192	4	8	10	119.00
28193	5	7	5	62.00
28194	5	7	10	102.00
28195	5	8	5	65.00
28196	5	8	10	104.00
28197	5	9	5	86.00
28198	5	9	10	138.00
28199	6	8	5	74.00
28200	6	8	10	119.00
28201	6	9	5	75.00
28202	6	9	10	120.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28203	6	10	5	95.00
28204	6	10	10	153.00
28205	7	10	5	76.00
28206	7	10	10	121.00
28207	7	11	5	107.00
28208	7	11	10	171.00
28209	8	12	5	115.00
28210	8	12	10	183.00
28211	9	13	5	134.00
28212	9	13	10	214.00
28213	9	14	5	152.00
28214	9	14	10	242.00
28215	10	14	5	152.00
28216	10	14	10	242.00
28217	10	16	5	164.00
28218	10	16	10	255.00
28219	12	17	5	178.00
28220	12	17	10	254.00

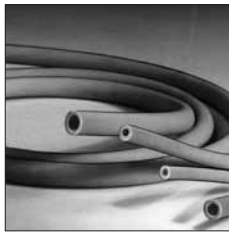
**THOMAFLUID®-NR Chemical Tubing - Shore 55**

**Product specification**

- High tearing strength, high impact resilience
- Outstanding tensile strength, very good elastic behaviour
- Best abrasion resistance, high static friction
- Good resistance to aging

**Technical specification**

- **Material:** NR (natural rubber)
- **Colour:** dark-red
- **Shore hardness A:** 55° ±5°
- **Temperature range:** -40 to +85 °C
- **Density:** 1.11 g/cm<sup>3</sup>



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28066	2	4	5	20.00
28067	2	4	15	51.00
28068	3	5	5	22.00
28069	3	5	15	58.00
28070	3	6	5	23.00
28071	3	6	15	61.00
28072	4	6	5	23.00
28073	4	6	15	61.00
28074	4	7	5	24.00
28075	4	7	15	63.00
28076	4	8	5	34.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28077	4	8	15	86.00
28078	5	8	5	24.00
28079	5	8	15	63.00
28080	5	9	5	34.00
28081	5	9	15	86.00
28082	6	9	5	26.00
28083	6	9	15	66.00
28084	6	10	5	32.00
28085	6	10	15	83.00
28086	7	10	5	32.00
28087	7	10	15	83.00
28088	7	11	5	34.00
28089	7	11	15	86.00
28090	8	12	5	39.00
28091	8	12	15	101.00
28092	9	13	5	42.00
28093	9	13	15	108.00
28094	10	14	5	50.00
28095	10	14	15	129.00
28096	12	17	5	68.00
28097	12	17	15	149.00
340751	12	18	5	88.00
340752	12	18	15	188.00
340753	15	21	5	98.00
340754	15	21	15	212.00
340755	18	24	5	126.00
340756	18	24	15	272.00
340757	20	28	5	208.00
340758	20	28	15	444.00
340759	20	30	5	252.00
340760	20	30	15	540.00
340761	25	33	5	238.00
340762	25	33	15	512.00

**THOMAFLUID®-NR Vacuum Chemical Tubing**

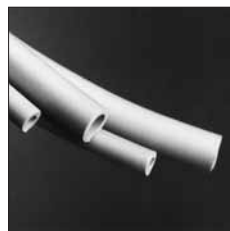
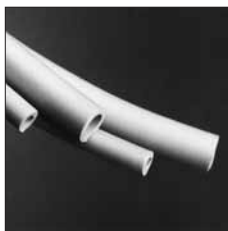
**Technical specification**

- **Material:** NR (natural rubber)
- **Colour:** red
- **Shore hardness A:** 50°
- **Temperature range:** -30 to +80 °C



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28106	3	9	5	35.00
28107	3	9	15	90.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28108	4	12	5	60.00
28109	4	12	15	146.00
28110	5	13	5	68.00
28111	5	13	15	158.00
28112	5	15	5	95.00
28113	5	15	15	219.00
28114	6	12	5	60.00
28115	6	12	15	155.00
28116	6	14	5	74.00
28117	6	14	15	173.00
28118	6	16	5	102.00
28119	6	16	15	173.00
28120	6	18	5	135.00
28121	6	18	15	243.00
28122	7	15	5	82.00
28123	7	15	15	194.00
28124	7	17	5	111.00
28125	7	17	15	278.00
28126	8	16	5	93.00
28127	8	16	15	199.00
28128	8	18	5	112.00
28129	8	18	15	238.00
28130	8	20	5	128.00
28131	8	20	15	276.00
28132	8	22	5	140.00
28134	8	24	5	152.00
28135	8	24	15	357.00
28136	10	16	5	128.00
28137	10	16	15	275.00
340763	10	20	5	140.00
340764	10	20	15	302.00
340765	10	26	5	270.00
340766	10	26	15	540.00
340767	10	30	5	322.00
340768	10	30	15	642.00
340769	12	22	5	280.00
340770	12	22	15	602.00
340771	12	28	5	354.00
340772	12	28	15	704.00
340773	15	31	5	372.00
340774	15	31	15	744.00
340775	15	35	5	406.00
340776	15	35	15	814.00



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
12315	18	24	5	116.00
12316	18	24	10	210.00
12317	20	27	5	141.00
12318	20	27	10	248.00
12319	25	35	5	250.00
12320	25	35	10	410.00
12321	30	40	5	290.00
12322	30	40	10	464.00
12323	40	50	5	374.00
12324	40	50	10	596.00
12325	50	60	5	454.00
12326	50	60	10	728.00

### THOMAFLUID®-High-Flexible-NR Chemical Tubing - super-thin-walled

#### Product specification

- Very good elastic behaviour with highest elastic stability
- High tearing strength, very high impact resilience
- Best abrasion resistance, high static friction
- Good resistance to aging

#### Technical specification

- **Material:** NR (natural rubber)
- **Colour:** natural (beige) and red
- **Shore hardness A:** 42° ±3°
- **Temperature range:** -40 to +80 °C
- **Density:** 1.2 g/cm<sup>3</sup>
- **Tolerance:** DIN ISO 3302-1 (DIN 7715-2)
- **Special features:** with wall thickness of 1-2 mm extremely thin-walled related to the diameter. For production reasons the tubing can only be produced in lengths of 2.5 - 4 m!



### THOMAFLUID®-NR Chemical Tubing - Shore 37

#### Product specification

- Conveying tubing
- Very soft, rubber-elastic type with very high resilience
- Inside smooth, outside textile imprint
- High tensile strength, good resistance to aging, best abrasion resistance

#### Technical specification

- **Material:** NR (natural rubber)
- **Colour:** beige
- **Shore hardness A:** 37° ±5°
- **Temperature range:** -30 to +60 °C
- **Tolerance:** ISO R 1307

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
333987	10	12	1	nature	5	48.00
333988	10	12	1	nature	15	126.00



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
333989	15	17	1	nature	5	66.00
333990	15	17	1	nature	15	176.00
333991	15	17	1	red	5	66.00
333992	15	17	1	red	15	176.00
333993	20	23	1.5	nature	5	84.00
333994	20	23	1.5	nature	15	224.00
333995	20	23	1.5	red	5	84.00
333996	20	23	1.5	red	15	224.00
333997	25	28	1.5	nature	5	94.00
333998	25	28	1.5	nature	10	168.00
333999	25	28	1.5	red	5	94.00
334000	25	28	1.5	red	10	168.00
334001	30	33	1.5	nature	5	108.00
334002	30	33	1.5	nature	10	192.00
334003	30	33	1.5	red	5	108.00
334004	30	33	1.5	red	10	192.00
334005	40	43	1.5	nature	5	150.00
334006	40	43	1.5	nature	10	260.00
334007	40	43	1.5	red	5	150.00
334008	40	43	1.5	red	10	260.00
334009	50	53	1.5	nature	5	176.00
334010	50	53	1.5	nature	10	306.00
334011	50	53	1.5	red	5	176.00
334012	50	53	1.5	red	10	306.00
334013	60	63	1.5	nature	5	194.00
334014	60	63	1.5	nature	10	332.00
334015	60	63	1.5	red	5	194.00
334016	60	63	1.5	red	10	332.00
334017	70	73	1.5	nature	5	210.00
334018	70	73	1.5	nature	10	348.00
334019	70	73	1.5	red	5	210.00
334020	70	73	1.5	red	10	348.00
334021	80	83	1.5	nature	5	240.00
334022	80	83	1.5	nature	10	394.00
334023	80	83	1.5	red	5	240.00
334024	80	83	1.5	red	10	394.00
334025	90	93	1.5	nature	5	258.00
334026	90	93	1.5	nature	10	420.00
334027	90	93	1.5	red	5	258.00
334028	90	93	1.5	red	10	420.00
334029	100	103	1.5	nature	5	280.00
334030	100	103	1.5	nature	10	448.00
334031	100	103	1.5	red	5	280.00
334032	100	103	1.5	red	10	448.00
334033	120	123	1.5	nature	5	300.00
334034	120	123	1.5	nature	10	474.00
334035	120	123	1.5	red	5	300.00
334036	120	123	1.5	red	10	474.00
334037	140	144	2	nature	5	392.00
334038	140	144	2	nature	10	558.00
334039	140	144	2	red	5	392.00
334040	140	144	2	red	10	558.00
334041	160	164	2	nature	5	448.00
334042	160	164	2	nature	10	598.00
334043	200	204	2	nature	5	564.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
334044	200	204	2	nature	10	678.00
334045	260	264	2	nature	5	682.00
334046	260	264	2	nature	10	820.00

### THOMAFLUID®-NR/SBR Suction and Pressure Double-Wall Jacket Tubing

#### Product specification

- Optimal mechanical properties
- Very high abrasion resistance
- Robust and flexible suction and pressure tubing
- For conveyance of process media and solutions, slurries, sewage, and liquid manure

#### Technical specification

- **Material:**  
Liner: NR (natural rubber)  
Jacket: SBR (styrene-butadiene rubber)
- **Colour:** black
- **Temperature range:** -20 to +70 °C
- **Insert:** two layers of rayon tissue, combined with a robust steel wire spiral
- **Vacuum strength:** ID 50 to 100 mm 80 %, ID 110 to 150 mm 60 %
- **Design:** inside smooth; outside corrugated
- **Marking:** green spiral-shaped stripe



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12554	50	63	10	350	1	64.00
12555	50	63	10	350	3	162.00
12556	75	88	7	525	1	90.00
12557	75	88	7	525	3	223.00
12558	90	106	6	630	1	110.00
12559	90	106	6	630	3	274.00
12560	100	116	6	700	1	123.00
12561	100	116	6	700	3	302.00
12562	110	126	6	800	1	131.00
12563	110	126	6	800	3	320.00
12564	150	170	6	1,100	1	167.00
12565	150	170	6	1,100	3	425.00

<sup>1</sup> at +20 °C

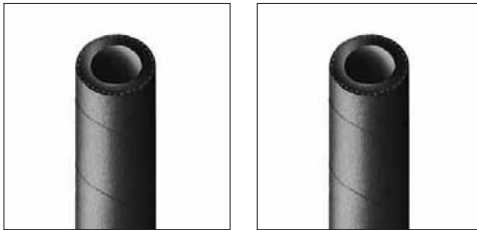
## THOMAFLUID®-High-Tech-NR/SBR Sandblast Hose

### Product specification

- Jacket: extremely high abrasion resistance, good thermal resistance and resistance to aging, resistant to weak acids and alkalis
- Liner: very high abrasion resistance, high tearing strength, high shock strength, very good elastic behaviour

### Technical specification

- **Material:**  
Liner: NR (natural rubber)  
Jacket: SBR (styrene-butadiene rubber)
- **Colour:** black, smooth
- **Temperature range:** -30 to +80 °C
- **Max. operating pressure:** 12 bar
- **Burst pressure:** 36 bar
- **Leakage resistance:** <10<sup>6</sup> Ohm
- **Abrasion:** 60 - 70 mm<sup>3</sup> according to DIN 53516



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
306354	13	27	7	3	160.00
306355	13	27	7	5	240.00
306356	19	33	7	3	168.00
306357	19	33	7	5	256.00
306358	25	39	7	3	186.00
306359	25	39	7	5	286.00
306360	32	48	8	3	196.00
306361	32	48	8	5	298.00
306362	38	55	8.5	3	264.00
306363	38	55	8.5	5	398.00
306364	42	60	9	1	116.00
306365	42	60	9	3	302.00
306366	50	70	10	1	144.00
306367	50	70	10	3	396.00

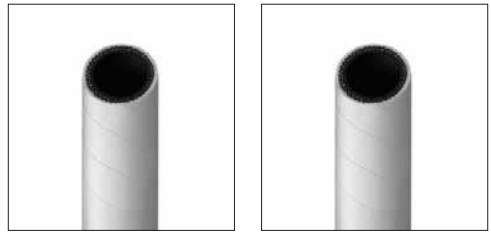
## THOMAFLUID®-NR/SBR Tubing for Compressed Air

### Product specification

- Extremely high abrasion resistance, thus very durable
- Best mechanical stability

### Technical specification

- **Material:** NR/SBR (natural rubber / styrene-butadiene rubber)
- **Insert:** rayon fabric inserts
- **Colour:** inside black, outside yellow
- **Temperature range:** -20 to +70 °C
- **Bursting pressure:** 3-fold operating pressure
- **Design:** inside and outside smooth



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
333969	13	25	30	65	5	60.00
333970	13	25	25	65	10	102.00
333971	16	28	20	80	5	74.00
333972	16	28	20	80	10	124.00
333973	19	33	20	100	5	76.00
333974	19	33	20	100	10	130.00
333975	25	40	20	125	5	110.00
333976	25	40	20	125	10	184.00
333977	32	48	20	320	5	210.00
333978	32	48	20	320	10	356.00
333979	38	56	20	380	5	242.00
333980	38	56	20	380	10	410.00
333981	50	70	20	500	3	202.00
333982	50	70	20	500	5	286.00
333983	75	94	20	750	1	108.00
333984	75	94	20	750	3	270.00

<sup>1</sup> at +20 °C

## Polyolefin Tubing

### THOMAFLUID®-Shrinkable Tubing made of Polyolefin, Shrinkage Rate 2:1 - flame retarded

#### Application area

- Kink protection of cables and lines, protection from environmental influences, insulation of cable harnesses, for bundling and for colour coding

#### Product specification

- High dielectric strength
- Heat shock resistance (4 h at +220 °C): no breaks, no flowing or dripping
- Flexibility after cold effects (4 h at -55 °C)
- Supplied in dispenser box



**Technical specification**

- **Material:** radiation cross-linked polyolefin, flexible
- **Colour:** black
- **Temperature range:** -55 to +125 °C
- **Shrinkage temperature:** +90 °C
- **Longitudinal shrinkage:** -15 %
- **Spec. weight:** >1.35
- **Tensile strength:** >10.3 MPa
- **Elongation at break:** >200 %
- **Flammability:** <60 sec. (ASTM D 2671 proCB)
- **Water absorption:** <0.5 % (ASTM D 570)
- **Electrical resistance:** >10<sup>14</sup> Ohm x cm
- **Operating voltage:** 600 V
- **Dielectric strength:** >19.7 kV/mm
- **Breakdown voltage:** at 2.5 kV for 1 min no breakdown
- **Regulations:** MIL-I-23053/5, class 3

Item	Ø before shrinkage	Ø after shrinkage	Wall thickness after shrinkage	Unit	Price
	mm	mm			
339536	1.2	0.6	0.4	15	32.00
339537	1.6	0.8	0.4	15	32.00
339538	2.4	1.2	0.45	15	32.00
339539	3.2	1.6	0.45	15	32.00
339541	4.8	2.4	0.45	10	32.00
339542	6.4	3.2	0.45	10	32.00
339544	9.5	5	0.55	10	32.00
339545	12.7	6.4	0.55	5	32.00
339547	19.1	10.2	0.7	5	32.00
339548	25.4	12.7	0.85	5	32.00

**THOMAFLUID®-Shrinkable Tubing made of Polyolefin, Shrinking Rate 3:1 - self-extinguishing, with adhesive inside**

**Application area**

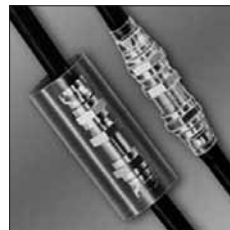
- Kink protection of cables and lines, protection from environmental influences, insulation of cable harnesses, for bundling and for colour coding

**Product specification**

- High dielectric strength
- Heat shock resistance (4 h at +220 °C): no breaks, no flowing or dripping
- No breaks at heat-influences (168 h at +158 °C)
- Flexibility after cold effects (4 h at -55 °C)
- Supplied in dispenser box

**Technical specification**

- **Material:** radiation cross-linked polyolefin, flexible
- **Colour:** black
- **Temperature range:** -55 to +110 °C
- **Shrinkage temperature:** +110 °C
- **Longitudinal shrinkage:** -15 %
- **Tensile strength:** >9 MPa
- **Elongation at break:** >250 %
- **Flammability:** <60 sec. (ASTM D 2671)
- **Water absorption:** <1 % (ASTM D 570)
- **Electrical resistance:** >10<sup>12</sup> Ohm x cm
- **Operating voltage:** 600 V
- **Dielectric strength:** >11.8 kV/mm
- **Breakdown voltage:** at 2.5 kV for 1 min no breakdown
- **Regulations:** UL 224 +125 °C; MIL-I-23053/4c, class 3



Item	Ø before shrinkage	Ø after shrinkage	Wall thickness after shrinkage	Unit	Price
	mm	mm			
339554	3.2	1.6	0.51	15	44.00
339555	4.8	2.4	0.51	10	44.00
339556	6.4	3.2	0.64	10	44.00
339557	9.5	4.8	0.64	10	44.00

Item	Ø before shrinkage	Ø after shrinkage	Wall thickness after shrinkage	Unit	Price
	mm	mm			
339549	3.2	0.6	0.96	5	52.00
339550	4.8	1.5	1.06	4	52.00
339551	6.4	2	1.19	3.5	52.00
339552	9.5	3	1.27	3	52.00
339553	12.7	4	1.4	2.5	52.00

**THOMAFLUID®-Shrinkable Tubing made of Polyolefin, Shrinking Rate 2:1 - self-extinguishing**

**Application area**

- Kink protection of cables and lines, protection from environmental influences, insulation of cable harnesses, for bundling and for colour coding

**Product specification**

- High dielectric strength
- Heat shock resistance (4 h at +220 °C): no breaks, no flowing or dripping
- No breaks at heat-influences (168 h at +158 °C)
- Flexibility after cold effects (4 h at -55 °C)
- Max. deformation resistance of 50 %
- No change of colour (24 h at +175 °C)
- Supplied in dispenser box

**Technical specification**

- **Material:** radiation cross-linked polyolefin, high flexible
- **Colour:** yellow-green striped
- **Temperature range:** -55 to +135 °C
- **Shrinkage temperature:** +90 °C
- **Longitudinal shrinkage:** -15 %
- **Spec. weight:** >1.35
- **Tensile strength:** >10.3 MPa
- **Elongation at break:** >200 %
- **Flammability:** <60 sec. (UL 224, VW 1)
- **Water absorption:** <0.5 % (ASTM D 570)
- **Electrical resistance:** >10<sup>14</sup> Ohm x cm
- **Operating voltage:** 600 V
- **Dielectric strength:** >19.7 kV/mm
- **Breakdown voltage:** at 2.5 kV for 1 min no breakdown
- **Regulations:** MIL-I-23053/5, class 1, class 3; UL 224 +125 °C 600 V VW-1

Item	Ø before shrinkage mm	Ø after shrinkage mm	Wall thickness after shrinkage mm	Unit m	Price EURO
339558	12.7	6.4	0.64	5	44.00
339559	19.1	9.5	0.76	5	44.00
339560	25.4	12.7	0.89	5	44.00

### THOMAFLUID®-Shrinkable Tubing Kit 1000

#### Product specification

- Assortment of practice-oriented, at higher temperature radially shrinking tubing cuts, with imperial internal dimensions:  
2 cuts à 500 mm, internal Ø 3/32" (2.4 mm)  
2 cuts à 500 mm, internal Ø 1/8" (3.2 mm)  
2 cuts à 500 mm, internal Ø 3/16" (4.8 mm)  
2 cuts à 500 mm, internal Ø 1/4" (6.4 mm)
- Flameproof, free of heavy metal, sorted by colours, made of chemically inert, UV stable, partly cross-linked polyolefin. In total 4 m in a tubular film packaging made of PVC-rigid with loop to hang up.

#### Technical specification

- Shrinkage temperature:** >125 to +200 °C
- Radial shrinkage:** 50 %
- Longitudinal shrinkage:** max. 10 %
- Temperature range:** -55 to +125 °C (IEC 216)
- El. breakdown strength:** 20 kV/mm (VDE 0303, T2)
- Combustibility:** self-extinguishing within 15 sec (UL 224)
- Storage:** not above +50 °C, protected from sunlight and heat

Item	Unit piece	Price EURO
48309	1	63.00

### THOMAFLUID®-Shrinkable Tubing Kit 2000

#### Product specification

- Assortment of practice-oriented, at higher temperature radially shrinking tubing cuts:  
125 cuts à 40 mm, shrinkage from Ø 1.2 mm to Ø 0.6 mm  
125 cuts à 40 mm, shrinkage from Ø 1.6 mm to Ø 0.8 mm  
125 cuts à 40 mm, shrinkage from Ø 2.4 mm to Ø 1.2 mm  
80 cuts à 40 mm, shrinkage from Ø 3.2 mm to Ø 1.6 mm  
40 cuts à 40 mm, shrinkage from Ø 4.8 mm to Ø 2.4 mm  
20 cuts à 40 mm, shrinkage from Ø 6.4 mm to Ø 3.2 mm  
5 cuts à 250 mm, shrinkage from Ø 1.2 mm to Ø 0.6 mm  
5 cuts à 250 mm, shrinkage from Ø 1.6 mm to Ø 0.8 mm  
5 cuts à 250 mm, shrinkage from Ø 3.2 mm to Ø 1.6 mm  
5 cuts à 250 mm, shrinkage from Ø 4.8 mm to Ø 2.4 mm  
5 cuts à 250 mm, shrinkage from Ø 6.4 mm to Ø 3.2 mm  
5 cuts à 250 mm, shrinkage from Ø 9.5 mm to Ø 4.8 mm  
12 cuts à 125 mm, shrinkage from Ø 9.5 mm to Ø 4.8 mm  
9 cuts à 125 mm, shrinkage from Ø 12.5 mm to Ø 6.4 mm
- Flameproof, free of heavy metal, sorted by colours, made of chemically inert, UV stable, partly cross-linked polyolefin. In total 30.3 m in a stable, clearly laid out double-chamber box, with detailed specification.
- Handling:** The tubing segment cutted to the required length is slid over the point to be protected and shrinked on using hot air >+125 °C or a soft free flame. The shrinking on tubing adapts tightly to the structure of the carrier material and remains pliable without cracking up to -55 °C (according to ASTM-D 2671).

#### Technical specification

- Shrinkage temperature:** >125 to +200 °C
- Radial shrinkage:** 50 %
- Longitudinal shrinkage:** max. 10 %
- Temperature range:** -55 to +125 °C (IEC 216)
- El. breakdown strength:** 20 kV/mm (VDE 0303, T2)
- Combustibility:** self-extinguishing within 15 sec (UL 224)
- Storage:** not above +50 °C, protected from sunlight and heat



Item	Unit piece	Price EURO
48308	1	163.00

## PUR Tubing

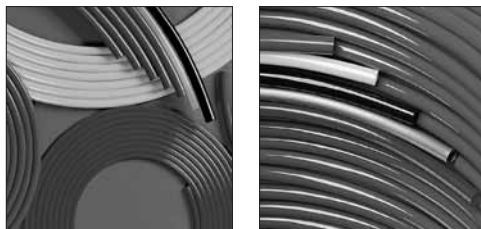
### THOMAFLUID®-PUR Chemical Tubing - coloured

#### Product specification

- Elastic behaviour comparable to soft rubber, thus outstanding elasticity
- Very high mechanical stability, tearing-resistant
- High tear propagation resistance
- Best resistance to aging, weather, ozone, and light
- UV-resistant

#### Technical specification

- Material:** PUR (polyurethane)
- Colour:** natural, black, white, red, green, blue, yellow
- Shore hardness A:** 85° ±5°
- Temperature range:** -35 to +80 °C, for a short time +120 °C



Item	Inside Ø mm	Outside Ø mm	Colour	Unit m	Price EURO
28300	1.6	3.2	nature	5	27.00
28301	1.6	3.2	nature	15	70.00
28302	1.6	3.2	black	5	27.00
28303	1.6	3.2	black	15	70.00
28304	1.6	3.2	white	5	27.00
28305	1.6	3.2	white	15	70.00

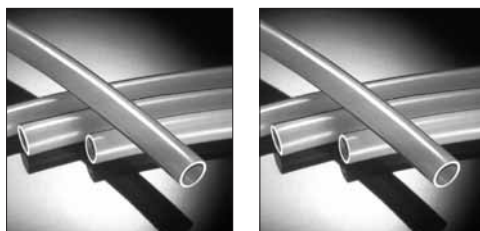
Item	Inside Ø mm	Outside Ø mm	Colour	Unit m	Price EURO
28306	1.6	3.2	red	5	27.00
28307	1.6	3.2	red	15	70.00
28308	1.6	3.2	green	5	27.00
28309	1.6	3.2	green	15	70.00
28310	1.6	3.2	blue	5	27.00
28311	1.6	3.2	blue	15	70.00
28312	1.6	3.2	yellow	5	27.00
28313	1.6	3.2	yellow	15	70.00
339659	2	3.5	nature	5	35.00
339660	2	3.5	nature	15	85.00
28314	2	4	nature	5	38.00
28315	2	4	nature	15	100.00
28316	2.4	4	nature	5	38.00
28317	2.4	4	nature	15	100.00
28318	3.2	4.8	nature	5	60.00
28319	3.2	4.8	nature	15	143.00
28320	3.2	6.4	nature	5	60.00
28321	3.2	6.4	nature	15	143.00
28322	3.2	6.4	black	5	60.00
28323	3.2	6.4	black	15	143.00
28324	3.2	6.4	white	5	60.00
28325	3.2	6.4	white	15	143.00
28326	3.2	6.4	red	5	60.00
28327	3.2	6.4	red	15	143.00
28328	3.2	6.4	green	5	60.00
28329	3.2	6.4	green	15	143.00
28330	3.2	6.4	blue	5	60.00
28331	3.2	6.4	blue	15	143.00
28332	3.2	6.4	yellow	5	60.00
28333	3.2	6.4	yellow	15	143.00
28334	3.7	6.4	nature	5	64.00
28335	3.7	6.4	nature	15	165.00
28336	4	7.2	nature	5	64.00
28337	4	7.2	nature	15	165.00
28338	4.4	6.4	nature	5	64.00
28339	4.4	6.4	nature	15	165.00
28340	4.8	6.4	nature	5	64.00
28341	4.8	6.4	nature	15	165.00
28342	4.8	7.9	nature	5	81.00
28343	4.8	7.9	nature	15	193.00
28344	6.4	7.9	nature	5	64.00
28345	6.4	7.9	nature	15	165.00
28346	6.4	9.5	nature	5	95.00
28347	6.4	9.5	nature	15	209.00
28348	7.9	11.1	nature	5	102.00
28349	7.9	11.1	nature	15	214.00
28350	9.5	12.7	nature	5	102.00
28351	9.5	12.7	nature	15	214.00

**Product specification**

- Highly abrasion- and wear-resistant
- Very good mechanical stability
- Elastic behaviour comparable to soft rubber
- Very good flexibility in cold, even at -40 °C
- Small bending radius, especially resistant to kinking and robust
- No embrittlement, as free of plasticizers
- Good damping behaviour
- Low remaining deformation
- Best chemical resistance to most oils, fats and petrols, aliphatic hydrocarbons and ozone
- UV-resistant

**Technical specification**

- **Material:** polyester-polyurethane
- **Colour:** transparent golden-yellow
- **Shore hardness A:** 70° (DIN 53505)
- **Temperature range:** -40 to +85 °C, for a short time +120 °C
- **Density:** 1.15 g/cm<sup>3</sup> (DIN 1183-1-A)
- **Tensile strength:** 38 MPa (DIN 53504-S2)
- **Elongation at break:** 910 % (DIN 53504-S2)
- **Abrasion:** 35 mm<sup>3</sup> (DIN 4649-A)
- **Tear propagation resistance:** 44 N/mm (ISO 34-1 Bb)
- **Compression set:** at +23 °C / 70 h: 20 % (DIN 53517)  
at +70 °C / 24 h: 45 % (DIN 53517)



Item	I-Ø	O-Ø	Tolerance	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm					
330071	2	4	±0.10	23	20	5	114.00
330072	2	4	±0.10	23	20	15	286.00
330073	4	6	±0.10	14	30	5	116.00
330074	4	6	±0.10	14	30	15	292.00
330075	6	8	±0.10	10	35	5	120.00
330076	6	8	±0.10	10	35	15	298.00
330077	8	10	±0.10	7	50	5	122.00
330078	8	10	±0.10	7	50	15	303.00
330079	8	12	±0.15	14	40	5	136.00
330080	8	12	±0.15	14	40	15	344.00
330081	10	14	±0.15	6	45	5	144.00
330082	10	14	±0.15	6	45	15	360.00
330083	10	16	±0.15	8.5	40	5	168.00
330084	10	16	±0.15	8.5	40	15	418.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-High-Tech-PUR Chemical and Industrial Tubing - High-Flexible**

**Application area**

- Process technology and chemical engineering, measurement and control technology, mechanical engineering, use as protective, conveying and air tubing, low-pressure pneumatics, as well as vacuum applications

## THOMAFLUID®-High-Tech-PUR Chemical and Compressed-Air Tubing

### Application area

- Flexible compressed-air supply on pneumatic tools and assembly lines
- Pneumatics, automation, automobile industry
- Measurement and control technology, chemical engineering, apparatus engineering, mechanical engineering

### Product specification

- Very good kink resistance
- Highest elasticity and flexibility
- Best mechanical stability and tearing strength
- Also at extreme deformation the tubing returns to its original shape
- Enormous abrasion resistance
- High pressure resistance
- Plasticizer- and heavy metal-free
- Absolutely silicone-free and recyclable
- Resistant to aging, weather and ozone
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine and antifreeze agents
- UV-resistant
- Dimension and hardness grade specially adjusted to THOMAFLUID® tubing squeezing screw joints for the pneumatics, type: RCT®-LCK 112/113, parts 330969, 330976, 330998 and 331006.
- Flexible chemical and compressed-air tubing

### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** blue / yellow / red
- **Shore hardness A:** 95° (DIN 53505)
- **Temperature range:** -20 to +85 °C
- **Max. operating pressure:** 10 bar at +20 °C



Item	Inside Ø	Outside Ø	Min. bending radius	Colour	Unit	Price
	mm	mm	mm		m	EURO
331016	4	6	16	blue	5	40.00
331017	4	6	16	blue	15	110.00
331018	4	6	16	yellow	5	40.00
331019	4	6	16	yellow	15	110.00
331020	4	6	16	red	5	40.00
331021	4	6	16	red	15	110.00
331022	5	8	24	blue	5	70.00
331023	5	8	24	blue	15	205.00
331024	5	8	24	yellow	5	70.00
331025	5	8	24	yellow	15	205.00
331026	5	8	24	red	5	70.00
331027	5	8	24	red	15	205.00
331028	6.5	10	30	blue	5	95.00
331029	6.5	10	30	blue	15	265.00

Item	Inside Ø	Outside Ø	Min. bending radius	Colour	Unit	Price
	mm	mm	mm		m	EURO
331030	6.5	10	30	yellow	5	95.00
331031	6.5	10	30	yellow	15	265.00
331032	6.5	10	30	red	5	95.00
331033	6.5	10	30	red	15	265.00
331034	8	12	36	blue	5	130.00
331035	8	12	36	blue	15	324.00
331036	8	12	36	yellow	5	130.00
331037	8	12	36	yellow	15	324.00
331038	8	12	36	red	5	130.00
331039	8	12	36	red	15	324.00
331040	9	13	38	blue	5	150.00
331041	9	13	38	blue	15	370.00
331042	9	13	38	yellow	5	150.00
331043	9	13	38	yellow	15	370.00
331044	9	13	38	red	5	150.00
331045	9	13	38	red	15	370.00
331046	11	16	48	blue	5	214.00
331047	11	16	48	blue	15	462.00
331048	11	16	48	yellow	5	214.00
331049	11	16	48	yellow	15	462.00
331050	11	16	48	red	5	214.00
331051	11	16	48	red	15	462.00
331052	13	19	56	blue	5	274.00
331053	13	19	56	blue	15	546.00
331054	13	19	56	yellow	5	274.00
331055	13	19	56	yellow	15	546.00
331056	13	19	56	red	5	274.00
331057	13	19	56	red	15	546.00

## THOMAFLUID®-High-Tech-PUR Chemical Tubing - calibrated

### Product specification

- Very high mechanical stability, tearing-resistant
- Very good elastic behaviour comparable to soft rubber, thus outstanding flexibility
- Flexible also at -40 °C
- Smallest bending radius, especially resistant to kinking and tearing
- Very high resistance to abrasion
- Good resistance to aging and weather
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions.
- UV-resistant



**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** colourless-clear, blue, black, yellow, red, green
- **Shore hardness A:** 98° ±5°
- **Temperature range:** -40 to +80 °C, for a short time +120 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C

Item	Inside Ø	Outside Ø	Min. bending radius	Colour	Unit	Price
	mm	mm	mm		m	EURO
14375	2.1	3	9	clear	5	23.00
14376	2.1	3	9	clear	15	67.00
14377	2.1	3	9	blue	5	23.00
14378	2.1	3	9	blue	15	67.00
14379	2.1	3	9	black	5	23.00
14380	2.1	3	9	black	15	67.00
14381	2.5	4	10	clear	5	26.00
14382	2.5	4	10	clear	15	69.00
14383	2.5	4	10	blue	5	26.00
14384	2.5	4	10	blue	15	69.00
14385	2.5	4	10	black	5	26.00
14386	2.5	4	10	black	15	69.00
14387	2.5	4	10	yellow	5	26.00
14388	2.5	4	10	yellow	15	69.00
14389	2.5	4	10	red	5	26.00
14390	2.5	4	10	red	15	69.00
14391	2.5	4	10	green	5	26.00
14392	2.5	4	10	green	15	69.00
14393	4	6	15	clear	5	39.00
14394	4	6	15	clear	15	108.00
14395	4	6	15	blue	5	39.00
14396	4	6	15	blue	15	108.00
14397	4	6	15	black	5	39.00
14398	4	6	15	black	15	108.00
14399	4	6	15	yellow	5	39.00
14400	4	6	15	yellow	15	108.00
14401	4	6	15	red	5	39.00
14402	4	6	15	red	15	108.00
14403	4	6	15	green	5	39.00
14404	4	6	15	green	15	108.00
14405	5	8	23	clear	5	57.00
14406	5	8	23	clear	15	154.00
14407	5	8	23	blue	5	57.00
14408	5	8	23	blue	15	154.00
14409	5	8	23	black	5	57.00
14410	5	8	23	black	15	154.00
14411	5	8	23	yellow	5	57.00
14412	5	8	23	yellow	15	154.00
14413	5	8	23	red	5	57.00
14414	5	8	23	red	15	154.00
14415	5	8	23	green	5	57.00
14416	5	8	23	green	15	154.00
339654	6	8	27	clear	5	48.00
339655	6	8	27	clear	15	126.00
14417	6.5	10	30	clear	5	85.00
14418	6.5	10	30	clear	15	231.00
14419	6.5	10	30	blue	5	85.00

Item	Inside Ø	Outside Ø	Min. bending radius	Colour	Unit	Price
	mm	mm	mm		m	EURO
14420	6.5	10	30	blue	15	231.00
14421	6.5	10	30	black	5	85.00
14422	6.5	10	30	black	15	231.00
14423	6.5	10	30	yellow	5	85.00
14424	6.5	10	30	yellow	15	231.00
14425	6.5	10	30	red	5	85.00
14426	6.5	10	30	red	15	231.00
14427	6.5	10	30	green	5	85.00
14428	6.5	10	30	green	15	231.00
14429	8	12	35	clear	5	98.00
14430	8	12	35	clear	15	254.00
14431	8	12	35	blue	5	98.00
14432	8	12	35	blue	15	254.00
14433	8	12	35	black	5	98.00
14434	8	12	35	black	15	254.00
14435	8	12	35	yellow	5	98.00
14436	8	12	35	yellow	15	254.00
14437	8	12	35	red	5	98.00
14438	8	12	35	red	15	254.00
14439	8	12	35	green	5	98.00
14440	8	12	35	green	15	254.00

**THOMAFLUID®-PUR Safety Chemical Tubing**

**Application area**

- Conveyance of neutral, liquid and gaseous media, such as cooling brine and other cooling fluids, media for hydraulic and pneumatic control systems, chemical solutions.
- For installations in chemical pilot and production plants, in experimental prototype construction, and for experimental set-ups in physics, chemistry, and technology.

**Product specification**

- Light-weighted, non-combustible safety conveying tubing, mechanically stable, elastic, kinking-resistant, dimensionally stable and robust to effects of light and ozone, resistant to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions.
- UV-resistant.

**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** blue coloured
- **Shore hardness D:** 52°
- **Temperature range:** -35 to +60 °C



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
47520	3	4.3	12	14	5	25.00
475201	3	4.3	12	14	15	65.00
47521	3	5	18	12	5	29.00
475211	3	5	18	12	15	75.00
47522	4	6	14	20	5	35.00
475221	4	6	14	20	15	93.00
47523	6	8	14	30	5	43.00
475231	6	8	14	30	15	112.00
47519	8	10	8	60	5	53.00
475191	8	10	8	60	15	128.00
47524	9	11.5	9	55	5	65.00
475241	9	11.5	9	55	15	149.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PUR Piping

#### Application area

- Flexible piping for conveyance of gaseous and aqueous media as well as mineral oils and hydrocarbons for hydraulic and pneumatic control systems.

#### Product specification

- Metrically calibrated polyurethane piping, narrowly tolerated outside diameters, particularly for use with THOMAFLUID® quick-release pipe couplings, chemically resistant, not leachable, very flexible, well cold-bendable, pressure loadable and UV-resistant.

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** black or blue
- **Shore hardness D:** 50°
- **Temperature range:** -15 to +70 °C
- **Tolerance:** at 4-8 mm ±0.1 mm; at 10-12 mm ±0.15 mm



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Colour	Unit	Price
	mm	mm	bar	mm		m	EURO
47196	2.5	4	10	10	black	5	16.00
47197	2.5	4	10	10	black	25	46.00
47198	3	5	13	13	black	5	23.00
47199	3	5	13	13	black	25	72.00
47200	4	6	9	15	black	5	29.00
47201	4	6	9	15	black	25	82.00
47202	5.5	8	8	20	black	5	44.00
47203	5.5	8	8	20	black	25	131.00

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Colour	Unit	Price
	mm	mm	bar	mm		m	EURO
47204	7	10	8	25	black	5	82.00
47205	7	10	8	25	black	25	243.00
47206	8	12	9	35	black	5	113.00
47207	8	12	9	35	black	25	333.00
47208	2.5	4	10	10	blue	5	16.00
47209	2.5	4	10	10	blue	25	46.00
47210	3	5	11	13	blue	5	23.00
47211	3	5	11	13	blue	25	72.00
47212	4	6	9	15	blue	5	29.00
47213	4	6	9	15	blue	25	82.00
47214	5.5	8	8	20	blue	5	44.00
47215	5.5	8	8	20	blue	25	131.00
47216	7	10	8	25	blue	5	82.00
47217	7	10	8	25	blue	25	243.00
47218	8	12	9	35	blue	5	113.00
47219	8	12	9	35	blue	25	333.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-High-Tech-PUR Chemical Tubing - antistatic, calibrated

#### Application area

- Conveyance of solid matters which tend to adhere to the wall due to static charge
- Problem solution for powder coating plants
- Process technology and chemical engineering
- Mechanical engineering
- Measurement and control technology
- Low-pressure pneumatics, as well as vacuum applications

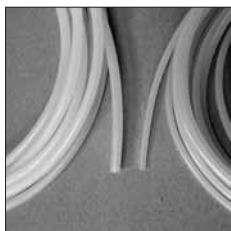
#### Product specification

- Very high mechanical stability
- Very high wear resistance
- Highest abrasion resistance
- Elastic behaviour comparable to soft rubber
- Low temperature flexibility, even at -40 °C
- Smallest bending radius, especially resistant to kinking and tearing
- No embrittlement, as free of plasticizers
- Good damping behaviour
- Good chemical resistance to most oils, fats and petrols, as well as aliphatic hydrocarbons and ozone
- UV-resistant

#### Technical specification

- **Material:** polyester-polyurethane
- **Shore hardness A / D:** 85° / 35° (DIN 53505)
- **Temperature range:** -40 to +85 °C, for a short time +120 °C
- **Density:** 1.20 g/cm<sup>3</sup> (DIN 53497)
- **Tensile strength:** 45 N/mm<sup>2</sup> (DIN 53504)
- **Elongation at break:** 650 % (DIN 53504)
- **Abrasion:** 35 mm<sup>3</sup> (DIN 53516)
- **Tear propagation resistance:** 60 N/mm (DIN 53515)
- **Compression set:** at +23 °C / 70 h: 25 % (DIN 53517) at +70 °C / 24 h: 40 % (DIN 53517)
- **Surface resistance:** 5 x 10<sup>9</sup> Ohm x cm (IEC 93)





Item	I-Ø	O-Ø	Tolerance	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	mm	bar	mm	m	EURO
330057	2	4	±0.10	10	20	5	116.00
330058	2	4	±0.10	10	20	15	290.00
330059	4	6	±0.10	6	30	5	118.00
330060	4	6	±0.10	6	30	15	298.00
330061	6	8	±0.10	4	35	5	122.00
330062	6	8	±0.10	4	35	15	304.00
330063	8	10	±0.10	3	50	5	124.00
330064	8	10	±0.10	3	50	15	312.00
330065	8	12	±0.15	6	40	5	142.00
330066	8	12	±0.15	6	40	15	356.00
330067	10	14	±0.15	5	45	5	150.00
330068	10	14	±0.15	5	45	15	374.00
330069	10	16	±0.15	6.5	40	5	176.00
330070	10	16	±0.15	6.5	40	15	438.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-High-Tech-PUR Chemical and Pneumatic Tubing - conductive

#### Application area

- Hydraulic conduits (mini-hydraulics), electrical engineering, pneumatic conduits (low-pressure area), engine construction, machine engineering, measurement and control technology, vacuum technology

#### Product specification

- Antistatic design prevents electrostatic charge
- Very good kink resistance
- Strong elastic force
- Very high mechanical stability and tearing strength
- Resistant to weather, aging, and ozone
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane and kerosine
- UV-resistant
- Microbe and hydrolysis resistant
- Outside calibrated, thus suitable for plug-in connections
- Suitable for vacuum applications

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** black
- **Shore hardness A:** 98 ° according to DIN 53505
- **Temperature range:** -20 to +85 °C
- **Max. operating pressure:** 10 bar at 20 °C
- **Surface resistance:** <10<sup>9</sup> Ohm
- **Regulations:** suitable for explosion-proof areas; according to guideline 94/9/EG (ATEX)

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
339937	1.5	3	10	8	5	43.00
339938	1.5	3	10	8	15	109.00
339939	2.5	4	10	10	5	49.00
339940	2.5	4	10	10	15	125.00
339941	4	6	10	15	5	55.00
339942	4	6	10	15	15	140.00
340343	6	8	10	28	5	60.00
340344	6	8	10	28	15	162.00
340345	7.5	10	10	35	5	82.00
340346	7.5	10	10	35	15	214.00
340347	9	12	10	37	5	124.00
340348	9	12	10	37	15	320.00

<sup>1</sup> at +20 °C

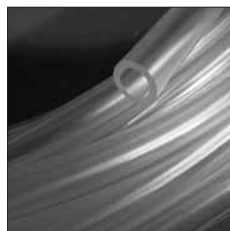
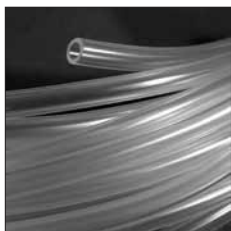
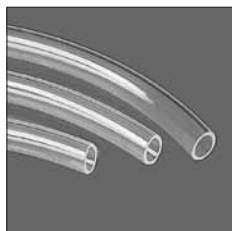
### THOMAFLUID®-High-Tech-PUR Food Tubing

#### Product specification

- Special compound with food approval
- Production according to FDA regulations
- Very good mechanical properties (stability)
- Tearing-resistant, even in long-term tests
- Outstanding flexibility
- Small bending radius, resistant to kinking and tearing
- Very good resistance to abrasion
- Good resistance to aging and weather
- Calibrated according to CETOP standard
- Resistant to hydrolysis and microbes
- UV-resistant

#### Technical specification

- **Material:** polyether-polyurethan
- **Shore hardness D:** 52° (DIN 53505)
- **Temperature range:** -35 to +60 °C
- **Density:** 1.16 g/cm<sup>3</sup>
- **Tensile Elasticity:** at 20 % stretching: 9 MPa (DIN 53504), at 100 % stretching: 15 MPa (DIN 53504), at 300 % stretching: 28 MPa (DIN 53504)
- **Tear propagation resistance:** 125 N/mm (DIN 53515)
- **Abrasion:** 25 mm<sup>3</sup> (DIN 53516)
- **Compression set:** at +23 °C: 35 % (DIN ISO 815) at +70 °C: 50 % (DIN ISO 815)
- **Notch impact strength:** at +23 °C: without break (DIN EN ISO 179) at -30 °C: 190 kJ/m<sup>2</sup>
- **Regulations:** conforming to FDA



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
302727	2.5	4	13	5	32.00
302728	2.5	4	13	15	88.00
302729	4	6	14	5	50.00
302730	4	6	14	15	138.00
302731	5	8	14	5	82.00
302732	5	8	14	15	208.00
3027331	6	8	10	5	85.00
3027341	6	8	10	15	215.00
302733	6.5	10	11	5	88.00
302734	6.5	10	11	15	234.00
3027351	8	10	10	5	106.00
3027361	8	10	10	15	286.00
302735	8	12	11	5	116.00
302736	8	12	11	15	306.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PUR Fuel and Lubricant Tubing

#### Application area

- Conveyance of oils, liquid fuels and lubricants in laboratories, pilot and industrial plants

#### Product specification

- Thick-walled, flexible and elastic chemical tubing, particularly for non-aqueous media, free of extractable constituents.
- Extremely high resistance to abrasion, tearing, aging, and weather.
- Chemically resistant to gasolines, bitumen, kerosine, aliphatic hydrocarbons, mineral oils, lubricants, for a short time also to aromatic hydrocarbons. Not usable for all halogenated solvents, water and aqueous solutions.

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** yellow, translucent
- **Shore hardness A:** 82° (ASTM D2240)
- **Temperature range:** -40 to +79 °C, for a short time +93 °C
- **Density:** 1.20 g/cm<sup>3</sup>
- **Embrittlement temperature:** -73 °C
- **Tensile strength:** 41.7 MPa (ASTM D412)
- **Tear resistance:** 83.1 kN/m (ASTM D1004)
- **Ultimate elongation:** 500 % (ASTM D412)
- **Tensile Modulus:** 5.5 MPa at 100 % Elongation; 10.4 MPa at 300 % Elongation
- **Compression set:** 68 % at +70 °C / 22 h
- **Dielectric strength:** 12.9 kV/mm (ASTM D149)
- **Water absorption:** 1.12 % at +23 °C / 24 h
- **Resistance to media:** excellent resistance to strong alkaline detergents
- **Regulations:** FDA (21 CFR, 177.1680 and 177.2600)

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
45205	1.6	3.2	0.8	4.8	1	18.00
45206	1.6	3.2	0.8	4.8	3	49.00
45207	1.6	3.2	0.8	4.8	5	67.00
45208	3.2	6.4	1.6	5.1	1	41.00
45209	3.2	6.4	1.6	5.1	3	108.00
45210	3.2	6.4	1.6	5.1	5	149.00
45211	4.8	7.9	1.6	3.8	1	57.00
45212	4.8	7.9	1.6	3.8	3	146.00
45213	4.8	7.9	1.6	3.8	5	202.00
45229	6.4	9.5	1.6	2.8	1	67.00
45230	6.4	9.5	1.6	2.8	3	172.00
45231	6.4	9.5	1.6	2.8	5	241.00
45214	9.5	12.7	1.6	2.3	1	82.00
45215	9.5	12.7	1.6	2.3	3	213.00
45216	9.5	12.7	1.6	2.3	5	294.00
45217	12.7	15.9	1.6	2	1	123.00
45218	12.7	15.9	1.6	2	3	305.00
45219	12.7	15.9	1.6	2	5	412.00
45220	15.9	20.6	2.4	2.2	1	144.00
45221	15.9	20.6	2.4	2.2	3	346.00
45222	15.9	20.6	2.4	2.2	5	484.00
45223	19	23.8	2.4	2	1	164.00
45224	19	23.8	2.4	2	3	376.00
45225	19	23.8	2.4	2	5	509.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-High-Tech-PUR Anti-Spark Safety Tubing

#### Application area

- Flexible compressed-air supply on pneumatic tools and assembly lines
- Pneumatics, automation, automobile industry
- Measurement and control technology, chemical engineering, apparatus engineering, mechanical engineering



**Product specification**

- Very good kink resistance
- Highest elasticity and flexibility
- Best mechanical stability and tearing strength
- Also at extreme deformation the tubing returns to its original shape
- Enormous abrasion resistance, high pressure resistance
- Plasticizer- and heavy metal-free
- Absolutely silicone-free and recyclable
- Fitted with type-related fittings and antikink device
- Exactly adjusted assortment of high-quality and reusable connections (fittings)
- Resistant to aging, weather and ozone, UV-resistant
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine and antifreeze agents
- Extremely resistant to flying sparks and welding spatter
- Fluorine-, halogen- and silicone-free, as well as free of lacquer wetting substances
- Outstanding drag chain suitability

**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** black
- **Shore hardness A:** 95° (DIN 53505)
- **Temperature range:** -20 to +85 °C
- **Max. operating pressure:** 14 bar at +20 °C
- **Flammability rating:** according to UL 94 V-0

Item	Inside Ø mm	Outside Ø mm	Min. bending radius mm	Unit m	Price EURO
340942	2.5	4	9	5	52.00
340943	2.5	4	9	15	128.00
330965	6	10	23	5	128.00
330966	6	10	23	15	304.00
340944	8	12	28	5	190.00
340945	8	12	28	15	488.00
330967	8	13	31	5	212.00
330968	8	13	31	15	506.00
340948	10	14	45	5	232.00
340949	10	14	45	15	592.00

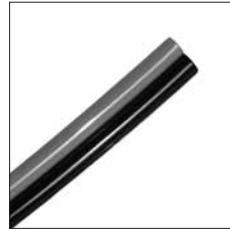
**THOMAFLUID®-High-Tech-PUR Lumen Chemical Tubing - 2 lumen, calibrated**

**Product specification**

- Two tubes combined into one pair of tubes and sealed together
- Very good elastic behaviour, thus outstanding flexibility
- Flexible also at -40 °C
- Smallest bending radius, especially resistant to kinking and tearing
- Very good mechanical stability, tearing-resistant
- Very high resistance to abrasion
- Very good resistance to weather, ozone and aging, UV-resistant
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions.

**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** blue/black
- **Shore hardness A:** 85° ±5°
- **Temperature range:** -40 to +80 °C, for a short time +120 °C
- **Design:** double lumen tubing
- **Tolerances outside Ø:** 4-5 mm: +0.07 mm; 6-10 mm: +0.10 mm
- **Tolerances wall thickness:** 4-8 mm: ±0.05 mm; 10 mm: ±0.1 mm



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
14456	2	4	18	12	5	44.00
14457	2	4	18	12	15	110.00
14458	3	4.3	10	14	5	44.00
14459	3	4.3	10	14	15	110.00
14460	3	5	18	12	5	54.00
14461	3	5	18	12	15	135.00
14462	4	6	13	20	5	69.00
14463	4	6	13	20	15	185.00
14464	6	8	12	30	5	87.00
14465	6	8	12	30	15	233.00
14466	8	10	8	60	5	110.00
14467	8	10	8	60	15	277.00

<sup>1</sup> at +20 °C

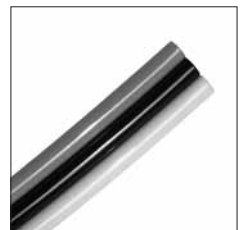
**THOMAFLUID®-High-Tech-PUR Lumen Chemical Tubing - 3 lumen, calibrated**

**Product specification**

- Three tubes combined into a tube unit and sealed together, colours: blue, black and natural.
- High elasticity and flexibility
- Flexible also at -40 °C
- Smallest bending radius, resistant to kinking and tearing
- Very good mechanical stability
- Resistant to weather, ozone and aging, UV-resistant
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine.

**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** blue/black/natural
- **Shore hardness A:** 98° (DIN 53505)
- **Temperature range:** -40 to +80 °C, for a short time +120 °C
- **Design:** triple lumen tubing



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
302741	2.5	4	18	12	5	62.00
302742	2.5	4	18	12	15	154.00
302743	4	6	13	20	5	102.00
302744	4	6	13	20	15	248.00
302745	6	8	12	30	5	106.00
302746	6	8	12	30	15	262.00
302747	8	10	8	60	5	124.00
302748	8	10	8	60	15	298.00

<sup>1</sup> at +20 °C

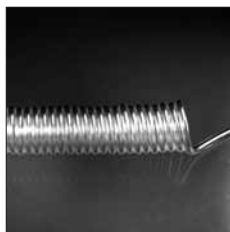
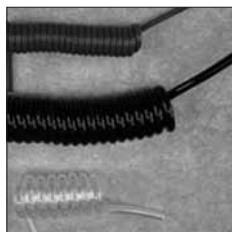
## THOMAFLUID®-PUR Spiral Chemical Tubing for Analytic Technology

### Product specification

- Very good mechanical stability, tearing-resistant
- Very good elastic behaviour comparable to soft rubber, thus outstanding flexibility
- Flexible also at -40 °C
- Smallest bending radius, especially resistant to kinking and tearing
- Very high resistance to abrasion
- Good resistance to aging and weather
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions.
- UV-resistant

### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** natural/black/white/red/yellow
- **Shore hardness A:** 98° ±5°
- **Temperature range:** -40 to +80 °C, for a short time +120 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C



Item	Inside Ø	Outside Ø	I-Ø spiral	Colour	Working length	Price
	mm	mm	mm		m	EURO
28369	1.6	3.2	14	nature	2.5	51.00
28370	1.6	3.2	14	black	2.5	51.00
28371	1.6	3.2	14	white	2.5	51.00
28372	1.6	3.2	14	red	2.5	51.00
28373	1.6	3.2	14	yellow	2.5	51.00
28374	1.6	3.2	14	nature	5	80.00
28375	1.6	3.2	14	black	5	80.00
28376	2	4	15	nature	2.5	61.00
28377	2.4	4	15	nature	2.5	61.00

Item	Inside Ø	Outside Ø	I-Ø spiral	Colour	Working length	Price
	mm	mm	mm		m	EURO
28378	3.2	6.4	25	nature	2.5	84.00
28379	3.2	6.4	25	black	2.5	84.00
28380	3.2	6.4	25	white	2.5	84.00
28381	3.2	6.4	25	red	2.5	84.00
28382	3.2	6.4	25	yellow	2.5	84.00
28383	3.2	6.4	25	nature	5	138.00
28384	3.2	6.4	25	black	5	138.00
28386	4	7.2	38	nature	2.5	96.00
28387	6.4	9.5	51	nature	2.5	116.00
28388	6.4	9.5	51	black	2.5	116.00
28389	6.4	9.5	51	red	2.5	116.00
28390	6.4	9.5	51	yellow	2.5	116.00
28391	6.4	9.5	51	nature	5	186.00
28392	6.4	9.5	51	black	5	186.00

## THOMAFLUID®-High-Tech-PUR Spiral Tubing - tolerated outside

### Application area

- Pneumatic lines (low-pressure range), hydraulic lines (mini-hydraulics), car body construction, mechanical engineering, engine construction, measurement and control technology
- Vacuum technology

### Product specification

- High flexibility and elasticity
- Strong elastic force, extremely high cold resistance
- Remarkable abrasion resistance
- Good damping behaviour
- Kink resistance
- Narrow bending radii
- No embrittlement, as free of plasticizers
- Resistant to most oils, fats, aliphatic hydrocarbons and ozone
- UV-resistant

### Technical specification

- **Material:** PUR (polyurethane), polyester-based
- **Colour:** blue
- **Shore hardness A:** 85° ±5°
- **Temperature range:** -20 to +60 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Connection nozzles:** on one side 100 mm; on the other side 500 mm



Item	Inside Ø	Outside Ø	I-Ø spiral	Working length	Price
	mm	mm	mm	m	EURO
330158	2	4	17	2	24.00
330159	2	4	17	3	32.00

Item	Inside Ø mm	Outside Ø mm	I-Ø spiral mm	Working length m	Price EURO
330160	4	6	30	3	44.00
330161	4	6	30	6	58.00
330162	4	6	30	8	62.00
330163	5	8	34	3	58.00
330164	5	8	34	6	66.00
330165	5	8	34	8	74.00
330166	6.5	10	42	3	62.00
330167	6.5	10	42	6	84.00
330168	6.5	10	42	8	96.00
330169	8	12	60	3	80.00
330170	8	12	60	6	104.00
330171	8	12	60	8	126.00

### THOMAFLUID®-PUR Antista Spiral Chemical Tubing without Fittings

#### Application area

- Hydraulic conduits (mini-hydraulics), electrical engineering, pneumatic conduits (low-pressure area), engine construction, machine engineering, measurement and control technology, vacuum technology

#### Product specification

- Antistatic design prevents electrostatic charge
- Very good kink resistance, strong elastic force
- Very high mechanical stability and tearing strength
- Resistant to weather, aging, and ozone, UV-resistant
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane and kerosine.
- Microbe and hydrolysis resistant
- Outside calibrated, thus suitable for plug-in connections
- Suitable for vacuum applications

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** black
- **Shore hardness A:** 98 ° according to DIN 53505
- **Temperature range:** -20 to +85 °C
- **Max. operating pressure:** 10 bar at 20 °C
- **Surface resistance:** <10<sup>9</sup> Ohm
- **Regulations:** suitable for explosion-proof areas according to guideline 94/9/EG (ATEX)



Item	Inside Ø mm	Outside Ø mm	O-Ø spiral mm	Working length m	Price EURO
340349	6	8	52	3	116.00
340350	6	8	52	6	162.00
340351	7.5	10	52	3	128.00

Item	Inside Ø mm	Outside Ø mm	O-Ø spiral mm	Working length m	Price EURO
340352	7.5	10	68	6	182.00
340353	9	12	68	3	184.00
340354	9	12	68	6	208.00

### THOMAFLUID®-High-Tech-PUR Spiral Double Lumen Chemical Tubing

#### Product specification

- Two tubes sealed together to one pair of tubes, coiled as spiral tubing.
- Very good elastic behaviour, thus outstanding flexibility.
- Flexible also at -40 °C.
- Very high mechanical stability, tearing-resistant.
- Very good abrasion resistance.
- Good resistance to aging, weather and ozone.
- Calibrated according to CETOP standard.
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions.
- UV-resistant.

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** blue/black
- **Shore hardness A:** 85° ±5°
- **Temperature range:** -40 to +80 °C, for a short time +120 °C
- **Modification of tubing:** spiral double lumen tubing
- **Tolerances outside Ø:** 4-5 mm: +0.07 mm; 6-10 mm: +0.1 mm
- **Tolerances wall thickness:** 4-8 mm: ±0.05 mm; 10 mm: ±0.1 mm



Item	Inside Ø mm	Outside Ø mm	O-Ø spiral mm	Working length m	Price EURO
14444	3	4.3	30	2.5	49.00
14445	3	4.3	30	5	77.00
14446	3	4.3	30	10	113.00
14447	4	6	60	2.5	59.00
14448	4	6	60	5	85.00
14449	4	6	60	10	156.00
14450	6	8	80	2.5	75.00
14451	6	8	80	5	113.00
14452	6	8	80	10	210.00
14453	8	10	90	2.5	113.00
14454	8	10	90	5	167.00
14455	8	10	90	10	318.00

## THOMAFLUID®-High-Tech-PUR Spiral Tubing with Rotatable Male R-Threads

### Product specification

- Spiral tubing with strong elastic force
- Very good kink resistance
- Highest elasticity and flexibility
- Best mechanical stability and tearing strength
- Resistant to weather, ozone and aging
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosine.
- UV-resistant
- With rotatable screw connections (external thread) on both sides
- Screw connections fitted with antikink device

### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** blue, yellow, red
- **Shore hardness A:** 98° (DIN 53505)
- **Temperature range:** -20 to +60 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Connection nozzles:** on one side 100 mm; on the other side 500 mm



Item	I-Ø mm	O-Ø mm	External thread	O-Ø spiral mm	Colour	Working length m	Price EURO
330845	4	6	R 1/4"	33	blue	3	116.00
330846	4	6	R 1/4"	33	blue	6	124.00
330847	4	6	R 1/4"	33	yellow	3	116.00
330848	4	6	R 1/4"	33	yellow	6	124.00
330849	4	6	R 1/4"	33	red	3	116.00
330850	4	6	R 1/4"	33	red	6	124.00
330851	5	8	R 1/4"	36	blue	3	126.00
330852	5	8	R 1/4"	36	blue	6	134.00
330853	5	8	R 1/4"	36	yellow	3	126.00
330854	5	8	R 1/4"	36	yellow	6	134.00
330855	5	8	R 1/4"	36	red	3	126.00
330856	5	8	R 1/4"	36	red	6	134.00
330857	6.5	10	R 1/4"	52	blue	3	146.00
330858	6.5	10	R 1/4"	52	blue	6	160.00
330859	6.5	10	R 1/4"	52	blue	8	178.00
330860	6.5	10	R 1/4"	52	yellow	3	146.00
330861	6.5	10	R 1/4"	52	yellow	6	160.00
330862	6.5	10	R 1/4"	52	yellow	8	178.00
330863	6.5	10	R 1/4"	52	red	3	146.00
330864	6.5	10	R 1/4"	52	red	6	160.00
330865	6.5	10	R 1/4"	52	red	8	178.00
330866	8	12	R 3/8"	65	blue	3	164.00
330867	8	12	R 3/8"	65	blue	6	186.00

Item	I-Ø mm	O-Ø mm	External thread	O-Ø spiral mm	Colour	Working length m	Price EURO
330868	8	12	R 3/8"	65	blue	8	210.00
330869	8	12	R 3/8"	65	yellow	3	164.00
330870	8	12	R 3/8"	65	yellow	6	186.00
330871	8	12	R 3/8"	65	yellow	8	210.00
330872	8	12	R 3/8"	65	red	3	164.00
330873	8	12	R 3/8"	65	red	6	186.00
330874	8	12	R 3/8"	65	red	8	210.00
330875	9	13	R 3/8"	68	blue	3	178.00
330876	9	13	R 3/8"	68	blue	6	196.00
330877	9	13	R 3/8"	68	blue	8	220.00
330878	9	13	R 3/8"	68	yellow	3	178.00
330879	9	13	R 3/8"	68	yellow	6	196.00
330880	9	13	R 3/8"	68	yellow	8	220.00
330881	9	13	R 3/8"	68	red	3	178.00
330882	9	13	R 3/8"	68	red	6	196.00
330883	9	13	R 3/8"	68	red	8	220.00
330884	11	16	R 1/2"	90	blue	3	220.00
330885	11	16	R 1/2"	90	blue	6	234.00
330886	11	16	R 1/2"	90	blue	8	266.00
330887	11	16	R 1/2"	90	yellow	3	220.00
330888	11	16	R 1/2"	90	yellow	6	234.00
330889	11	16	R 1/2"	90	yellow	8	266.00
330890	11	16	R 1/2"	90	red	3	220.00
330891	11	16	R 1/2"	90	red	6	234.00
330892	11	16	R 1/2"	90	red	8	266.00
330893 <sup>1</sup>	13	19	R 3/4"	125	blue	3	304.00
330894 <sup>1</sup>	13	19	R 3/4"	125	blue	6	324.00
330895 <sup>1</sup>	13	19	R 3/4"	125	blue	8	360.00
330896 <sup>1</sup>	13	19	R 3/4"	125	yellow	3	304.00
330897 <sup>1</sup>	13	19	R 3/4"	125	yellow	6	324.00
330898 <sup>1</sup>	13	19	R 3/4"	125	yellow	8	360.00

<sup>1</sup> with rigid screw connection and steel anti-kink spring

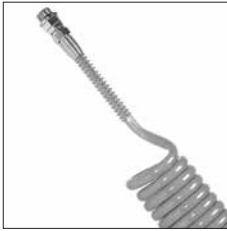
## THOMAFLUID®-PUR Spiral Tubing with Rotatable Male G-Threads

### Application area

- Conveyance of neutral, liquid, and gaseous media, particularly of combustible fluids at systems in motion or under vibration such as hydraulic and pneumatic controls of robot systems, automated metering systems in industrial plants as well as in experimental prototype construction and experimental set-ups in physics, biotechnology, chemistry, and medical engineering.

### Product specification

- Continuously coiled, extremely light-weighted, flexible, dimensionally stable, and non-combustible safety polyurethane tubing (PUR), coloured blue, kinking-resistant, with high long-term recoil spring power (also at continuous load), abrasion-resistant. Resistant to aging, free of plasticizers, robust to effects of light and ozone, resistant to gasoline, cyclohexane, diesel oil, isooctane, kerosine, and aqueous salt solutions. Pressure loadable up to 8 bar at +50 °C, working temperature range from -40 to +85 °C. Straight coupling ends on both sides: length of one side 100 mm, length of the other side 500 mm, with reinforced ends each and completely mounted rotatable G 1/4" or G 3/8" threaded couplings. Delivered in practice-proven dimensions.



Item	Inside Ø mm	Outside Ø mm	External thread	I-Ø spiral mm	Working length m	Price EURO
47516	4	6	G 1/4"	30	3	51.00
47517	4	6	G 1/4"	30	6	60.00
47518	4	6	G 1/4"	30	8	63.00
47507	5	8	G 1/4"	34	3	57.00
47508	5	8	G 1/4"	34	6	65.00
47509	5	8	G 1/4"	34	8	72.00
47510	6.5	10	G 1/4"	42	3	67.00
47511	6.5	10	G 1/4"	42	6	80.00
47512	6.5	10	G 1/4"	42	8	100.00
47513	8	12	G 3/8"	60	3	82.00
47514	8	12	G 3/8"	60	6	99.00
47515	8	12	G 3/8"	60	8	125.00

### THOMAFLUID®-High-Tech-PUR Spiral Tubing with Rotatable Plug-in Nipple and Quick-Release Coupling

#### Product specification

- Spiral tubing with permanent return spring force
- Very good kink resistance
- Highest elasticity and flexibility
- Best mechanical stability and tearing strength
- Resistant to aging, weather and ozone
- Calibrated according to CETOP standard
- Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosene
- UV-resistant
- On one side with rotatable plug-in nipple, on the other side with rotatable quick-release coupling
- Nipple and coupling fitted with antikink device

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** blue, yellow, red
- **Shore hardness A:** 98° (DIN 53505)
- **Temperature range:** -20 to +60-°C
- **Max. operating pressure:** 10 bar at +20 °C



Item	Inside Ø mm	Outside Ø mm	O-O spiral mm	Block length mm	Colour	Working length m	Price EURO
330914	4	6	33	370	blue	3	116.00
330915	4	6	33	480	blue	6	124.00
330916	4	6	33	370	yellow	3	116.00
330917	4	6	33	480	yellow	6	124.00
330918	4	6	33	370	red	3	116.00
330919	4	6	33	480	red	6	124.00
330920	5	8	36	320	blue	3	126.00
330921	5	8	36	610	blue	6	134.00
330922	5	8	36	320	yellow	3	126.00
330923	5	8	36	610	yellow	6	134.00
330924	5	8	36	320	red	3	126.00
330925	5	8	36	610	red	6	134.00
330926	6.5	10	52	320	blue	3	146.00
330927	6.5	10	52	550	blue	6	160.00
330928	6.5	10	52	660	blue	8	178.00
330929	6.5	10	52	320	yellow	3	146.00
330930	6.5	10	52	550	yellow	6	160.00
330931	6.5	10	52	660	yellow	8	178.00
330932	6.5	10	52	320	red	3	146.00
330933	6.5	10	52	550	red	6	160.00
330934	6.5	10	52	660	red	8	178.00
330935	8	12	65	270	blue	3	164.00
330936	8	12	65	550	blue	6	186.00
330937	8	12	65	620	blue	8	210.00
330938	8	12	65	270	yellow	3	164.00
330939	8	12	65	550	yellow	6	186.00
330940	8	12	65	620	yellow	8	210.00
330941	8	12	65	270	red	3	164.00
330942	8	12	65	550	red	6	186.00
330943	8	12	65	620	red	8	210.00
330944	9	13	68	280	blue	3	178.00
330945	9	13	68	640	blue	6	196.00
330946	9	13	68	700	blue	8	220.00
330947	9	13	68	280	yellow	3	178.00
330948	9	13	68	640	yellow	6	196.00
330949	9	13	68	700	yellow	8	220.00
330950	9	13	68	280	red	3	178.00
330951	9	13	68	640	red	6	196.00
330952	9	13	68	700	red	8	220.00

### THOMAFLUID®-High-Tech-PUR Spiral Tubing with Spark Protection and Rotatable Screwed Fittings

#### Product specification

- Extremely resistant to flying firebrands and welding spatter
- Fluorine-, halogen- and silicone-free, as well as free of lacquer wetting substances
- UV-resistant
- With rotatable screwed fittings (external thread) on both sides
- Screwed fittings fitted with antikink device

#### Technical specification

- **Colour:** black-coloured
- **Connection nozzles:** on one side 100 mm, on the other side 500 mm



Item	Inside Ø mm	Outside Ø mm	External thread	O-Ø spiral mm	Block length mm	Working length m	Price EURO
330959	6	10	R 1/4"	52	320	3	216.00
330960	6	10	R 1/4"	52	550	6	276.00
330961	6	10	R 1/4"	52	660	8	310.00
330962	8	13	R 3/8"	68	280	3	294.00
330963	8	13	R 3/8"	68	560	6	384.00
330964	8	13	R 3/8"	68	650	8	444.00

**THOMAFUID®-PUR Spiral Tubeing with Air Blow Off Gun and Plug-in Nipple**

**Product specification**

- With high-quality, robust as well as handy air blow off gun available in two designs:  
 Type: APNO (particularly robust industrial design) body made of forged aluminium, spray nozzle made of steel, chromium-plated, colour: blue and yellow.  
 Type: APKO (light industrial design) body made of plastics, with extension nozzle made of steel (length: 100 mm; colour: red).
- Plug-in nipple DN 7.2
- With plastic and scratch protection
- Unit completely mounted



Item	Type	Inside Ø mm	Outside Ø mm	O-Ø spiral mm	Block length mm	Working length m	Price EURO
330902	APNO	5	8	36	260	3	146.00
330903	APNO	5	8	36	510	6	168.00
330904	APNO	5	8	36	260	3	146.00
330905	APNO	5	8	36	510	6	168.00
330906	APNO	6.5	10	52	230	3	160.00
330907	APNO	6.5	10	52	490	6	182.00
330908	APNO	6.5	10	52	230	3	160.00
330909	APNO	6.5	10	52	490	6	182.00
330910	APKO	5	8	36	260	3	128.00
330911	APKO	5	8	36	510	6	148.00

Item	Type	Inside Ø mm	Outside Ø mm	O-Ø spiral mm	Block length mm	Working length m	Price EURO
330912	APKO	6.5	10	52	230	3	142.00
330913	APKO	6.5	10	52	490	6	162.00

**THOMAFUID®-Air Blow Out Gun with Short Nozzle**

**Product specification**

- Low weight due to the plastic body
- Metered amount of blow out air by means of the operating lever



Item	Connection type	Unit piece	Price EURO
330300	int. thread G 1/4"	1	65.00
330301	tubing connection 6 mm	1	70.00
330302	tubing connection 9 mm	1	70.00
330303	coupling plug NW 5	1	70.00
330304	coupling plug NW 7.2	1	70.00

**THOMAFUID®-Air Blow Out Gun with Safety Nozzle**

**Product specification**

- Low weight due to the plastic body.
- Metered amount of blow out air by means of the operating lever.
- At a too small distance between nozzle and surface the air escapes sideward.



Item	Connection type	Unit piece	Price EURO
330305	int. thread G 1/4"	1	80.00
330306	tubing connection 6 mm	1	85.00
330307	tubing connection 9 mm	1	90.00



## THOMAFLUID®-PUR Double-Wall Jacket Tubing - resistant to welding spatter

### Product specification

- Special tubing resistant to welding spatter
- Jacket: hardly inflammable protective jacket, which has very good insulating properties and meets the regulations.
- Liner: very good mechanical stability, tearing-resistant  
Best elastic behaviour, thus outstanding flexibility  
Favourable bending radius  
Very good abrasion resistance  
Good resistance to aging  
Good chemical resistance to gasoline, cyclohexane, diesel oil, isooctane, kerosene, and aqueous salt solutions.

### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:** black
- **Temperature range:** -30 to +100 °C
- **Flammability rating:** UL 94 V-0 to V-2



Item	Inside Ø	Outside Ø	Min. bending radius	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	mm	bar	m	EURO
302769	2	4	7	16	5	93.00
302770	2	4	7	16	15	220.00
302737	4	8	15	16	5	113.00
302738	4	8	15	16	15	270.00
302739	6	10	20	16	5	133.00
302740	6	10	20	16	15	310.00
302771	8	12	28	16	5	143.00
302772	8	12	28	16	15	340.00
302773	10	14	45	12	5	153.00
302774	10	14	45	12	15	360.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PUR Double-Wall Jacket High-Pressure Tubing

### Product specification

- High pressure hydraulic tubing for conveyance of hardly inflammable hydraulic fluids on phosphate ester base, fluids on mineral oil and glycol base, mineral lubricants, cooling agents, water up to +70 °C, dyes, various solvents, fuels, carbonic acid, compressed air, frigen, nitrogen, natural gas etc.
- High mechanical stability, excellent resistance to abrasion.
- Good resistance to aging and ozone, UV-resistant.
- Low permeability to gas.
- The jacket is said to have good resistance to weather, good impact toughness, and best abrasion resistance.

### Technical specification

- **Material:**  
Liner: PUR (polyurethane)  
Jacket: PE (polyethylene)
- **Colour:** black
- **Temperature range:** -54 to +100 °C
- **Insert:** twofold synthetic fibre braiding
- **Bursting pressure:** 4fold dynamic operating pressure



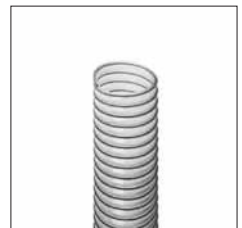
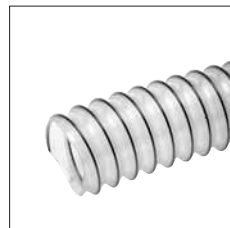
Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
13101	4.8	10.9	207	20	3	108.00
13102	4.8	10.9	207	20	5	167.00
13103	6.4	13	207	32	3	118.00
13104	6.4	13	207	32	5	179.00
13105	8	15.1	172	45	3	128.00
13106	8	15.1	172	45	5	197.00
13107	9.5	16.8	155	51	3	144.00
13108	9.5	16.8	155	51	5	220.00
13109	12.7	20.8	138	77	1	82.00
13110	12.7	20.8	138	77	3	205.00
13111	19	27.2	86	127	1	113.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PUR Foil Tubing

### Product specification

- Robust type
- High mechanical stability and flexibility
- Excellent abrasion resistance
- Very good resistance to aging, ozone, and weather
- Low permeability to gas
- Resistance to mineral oil
- UV-resistant
- With integrated welded-in supporting spiral



**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** transparent
- **Temperature range:** -40 to +90 °C
- **Insert:** a corrosion-protected steel wire spiral
- **Wall thickness:** 0.4 mm
- **Design:** inside and outside corrugated

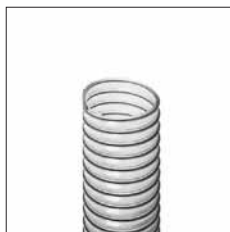
Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
12896	50	54	0.4	200	35	3	109.00
12897	50	54	0.4	200	35	5	151.00
12898	60	64	0.4	160	42	3	117.00
12899	60	64	0.4	160	42	5	162.00
12900	80	84	0.28	100	56	1	56.00
12901	80	84	0.28	100	56	3	113.00
12902	90	94	0.2	90	63	1	62.00
12903	90	94	0.2	90	63	3	122.00
12904	100	105	0.2	90	70	1	65.00
12905	100	105	0.2	90	70	3	126.00
12906	120	125	0.2	80	85	1	76.00
12907	120	125	0.2	80	85	3	152.00
12908	125	130	0.2	80	88	1	79.00
12909	125	130	0.2	80	88	3	164.00
12910	130	135	0.2	70	92	1	85.00
12911	130	135	0.2	70	92	3	177.00
12912	150	155	0.1	60	105	1	93.00
12913	160	165	0.09	55	115	1	98.00
12914	180	185	0.09	50	130	1	108.00
12915	200	206	0.08	50	140	1	115.00
12916	250	256	0.05	40	175	1	147.00
12917	300	306	0.03	30	210	1	183.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-PUR Foil Tubing - conforming to FDA**

**Product specification**

- Robust, medium-weighted type with integrated steel wire spiral
- Very high abrasion resistance
- Good resistance to weather, aging, and ozone
- Resistant to hydrolysis and microbes
- Reduction of static electricity by grounding the spiral
- Resistant to mineral oil
- UV-resistant
- Material according to FDA



**Technical specification**

- **Material:** PUR (ether-polyurethane)
- **Colour:** transparent
- **Temperature range:** -40 to +90 °C, for a short time up to +125 °C
- **Insert:** a corrosion-protected steel wire spiral
- **Wall thickness:** 0.7 mm
- **Design:** inside smooth; outside corrugated
- **Regulations:** FDA 21 CFR §177.2600 and §178.2010

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
12481	50	57	1.13	345	63	1	64.00
12482	60	67	0.95	270	74	1	68.00
12483	80	87	0.71	165	96	1	76.00
12887	100	107	0.57	115	118	1	82.00
12888	120	127	0.47	95	140	1	98.00
12889	140	147	0.41	80	162	1	110.00
12890	150	157	0.38	75	173	1	117.00
12891	160	167	0.35	65	184	1	121.00
12892	180	187	0.32	50	206	1	126.00
12893	200	207	0.28	50	228	1	151.00
12894	250	257	0.23	20	283	1	199.00
12895	300	307	0.19	20	338	1	230.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-PUR Foil Tubing - TPE-U-covered**

**Product specification**

- Robust, medium-weighted type
- Designed particularly for suction applications
- High wear resistance
- Good abrasion resistance
- Resistance to weather, aging, and ozone
- UV-resistant
- Low permeability
- Resistant to mineral oil

**Technical specification**

- **Material:** PUR (polyurethane)
- **Colour:** transparent
- **Temperature range:** -40 to +100 °C
- **Insert:** a steel wire spiral, TPE-U-covered
- **Wall thickness:** approx. 1.4 mm
- **Design:** inside smooth; outside corrugated



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mbar	mm	m	EURO
12918	32	44	3	900	48	1	57.00
12919	38	50	2.4	750	60	1	61.00
12920	50	62	1.9	600	78	1	67.00
12921	60	72	1.8	550	90	1	80.00
12922	75	87	1.2	500	113	1	92.00
12923	100	113	1.1	400	150	1	130.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PUR Compressed Air Tubing

#### Application area

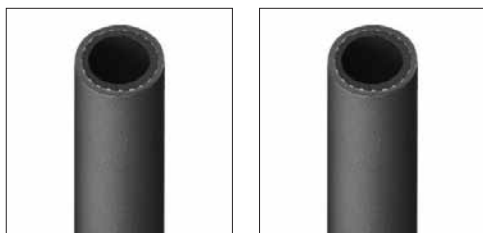
- Machine engineering (for pneumatic tools), operating technology, hydraulics and pneumatics, process engineering

#### Product specification

- Highest pressure resistance
- High wear resistance
- Dimensionally stable
- Low weight
- High flexibility
- Resistant to gasoline, greases, oils, diluted acids and alkalis

#### Technical specification

- **Material:** PUR (polyurethane)
- **Colour:**  
Liner: black, smooth  
Jacket: blue, smooth
- **Temperature range:** -20 to +60 °C
- **Max. operating pressure:** 20 bar at +20 °C
- **Bursting pressure:** 60 bar at +20 °C
- **Tubing imprint:** PN 20 bar



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Unit	Price
	mm	mm	bar	m	EURO
340046	6	10	20	5	64.00
340047	6	10	20	10	124.00
340048	8	12	20	5	80.00
340049	8	12	20	10	148.00
340050	9	13	20	5	96.00
340051	9	13	20	10	180.00
340052	10	14.5	20	5	114.00
340053	10	14.5	20	10	206.00
340054	13	18	20	5	138.00
340055	13	18	20	10	262.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PUR Suction and Pressure Tubing

#### Application area

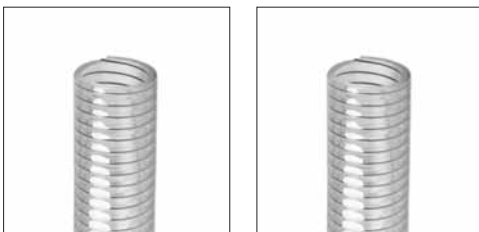
- Conveying tubing for powder and granular media as well as granulate
- Vacuum technology, operating technology, Ppant construction, chemical engineering

#### Product specification

- Extremely high abrasion resistance
- Highest kink resistance
- Best mechanical stability even in long-term applications
- Resistant to weather, ozone, aging as well as UV radiation
- Good chemical resistance

#### Technical specification

- **Material:**  
Liner: PUR (polyurethane)  
Jacket: PVC (polyvinyl chloride)
- **Colour:** transparent, mirror-smooth
- **Insert:** with embedded steel spiral
- **Temperature range:** -20 to +80 °C
- **Max. operating pressure:** 6 bar at +20 °C
- **Vacuum strength:** 900 mbar at +20 °C
- **Tubing imprint:** PUR/dimensions



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
340825	38	46	5	152	2	184.00
340826	38	46	5	152	5	366.00
340827	40	48	5	160	1	116.00
340828	40	48	5	160	3	286.00
340829	51	62	5	204	1	148.00
340830	51	62	5	204	3	364.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PUR Suction and Pressure Tubing - conforming to BGA

#### Application area

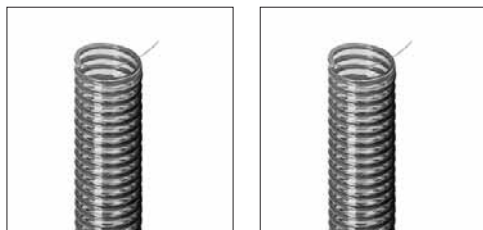
- Food technology, sugar industry, dairy processing, soft drink production, flour mills

#### Product specification

- Conveying tubing for liquid, powder as well as granular food such as milk powder, sugar or granulate
- Robust type
- High wear resistance
- Designed for suction and pressure applications
- Good abrasion resistance

**Technical specification**

- **Material:**  
Liner: PUR (polyurethane)  
Jacket: PVC (polyvinyl chloride)
- **Colour:** transparent
- **Liner:** mirror-smooth and conforming to BGA and FDA
- **Jacket:** with integrated, grey, impact-resistant PVC spiral and stranded copper wire lying outside
- **Temperature range:** -15 to +60 °C
- **Max. operating pressure:** 3.5 - 7 bar at +20 °C
- **Vacuum:** 0.7 bar at +20 °C
- **Regulations:** conforming to BGA and FDA; Norm EU 10/2011 Kat. E



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340094	38	46	7	1	60.00
340095	38	46	7	3	166.00
340096	51	61	6.5	1	78.00
340097	51	61	6.5	3	216.00
340098	76	87	4	1	138.00
340099	76	87	4	3	382.00
340100	102	115	3.5	1	212.00
340101	102	115	3.5	3	382.00

<sup>1</sup> at +20 °C

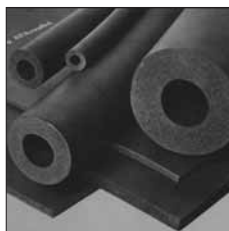
**THOMAFLUID®-PUR Insulating Tubing**

**Product specification**

- An extremely flexible synthetic caoutchouc (polyurethane) with lowest thermal conductivity. Thereby high reduction of energy loss, prevention of condensation water formation by closed material structure.
- UV-resistant.

**Technical specification**

- **Material:** PUR (polyurethane, foamed)
- **Colour:** black
- **Thermal conductivity:** 0.038 W/mK at 0 °C; 0.039 W/mK at +50 °C
- **Diffusion resistance factor:** 2.500
- **Burning behaviour:** DIN 4102 (hardly inflammable), Category B 1



Item	Inside Ø mm	Wall thickness mm	Unit m	Price EURO
94931	8.5	7	1	21.00
94933	8.5	9.5	1	26.00
42120	10.5	7	1	25.00
94934	10.5	10	1	28.00
42121	12.5	7.5	1	28.00
94936	12.5	11	1	31.00
42122	14.5	7.5	1	29.00
42123	17.5	8	1	31.00
42124	17.5	11.5	1	34.00
42125	17.5	17	1	93.00
42126	20.5	8	1	32.00
42127	20.5	11.5	1	35.00
42128	20.5	14	1	33.00
42129	20.5	17.5	1	36.00
42130	24.5	8.5	1	34.00
42131	24.5	12	1	40.00
42132	27.5	8.5	1	36.00
42133	27.5	12.5	1	43.00
42134	30.5	8.5	1	37.00
42135	30.5	12.5	1	44.00
42136	30.5	15.5	1	39.00
42137	30.5	19	1	45.00
42138	35	9	1	48.00
94932	35	19.5	1	56.00
42139	38	9	1	43.00
42140	38	13	1	49.00
42141	38	16	1	44.00
42142	38	19.5	1	51.00
42143	41	9	1	54.00
42144	45.5	9	1	58.00
42145	45.5	13.5	1	63.00
42146	51.5	9	1	67.00
42147	57	9	1	78.00
42148	57	13.5	1	86.00
42149	63.5	9	1	96.00
94935	63.5	32	1	99.00
42150	67.5	9.5	1	108.00
42151	79.5	9.5	1	118.00
42152	79.5	14	1	129.00
42153	84	9.5	1	142.00
42154	93	9.5	1	156.00

**PVC and TYGON® Tubing**

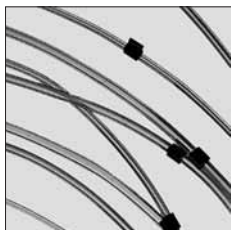
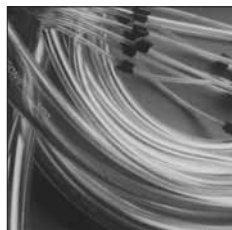
**TYGON®-Pump Tubing with 2 Stoppers**

**Product specification**

- For peristaltic pumps with tubing cassettes.
- Durable precision pump tubing for routine use, made of dimensionally stable material for conveyance of aqueous media in the range of pH 1 to 10; fitted with two involved stoppers each for mounting in tubing cassettes; colour-coded for clearly organized use.
- Usual applications in laboratories, non-toxic, non-aging, non-oxidizing, autoclavable.
- Good resistance to acids and alkalis.

**Technical specification**

- **Material:** TYGON®-R-3607
- **Colour:** crystal-clear
- **Shore hardness A:** 55° ±5° (DIN 53505)
- **Temperature range:** -45 to +65 °C (for a short period +85 °C)
- **Sterilization:** autoclavable (+121 °C)
- **Fixed length:** 406 mm from end to end; with 2 coding riders, distance between the riders 154 mm



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43710	0.19	2.01	0.91	orange/rot	6	63.00
43711	0.25	2.07	0.91	orange/blau	6	63.00
43712	0.38	2.2	0.91	orange/green	6	63.00
43713	0.44	2.26	0.91	green/yellow	6	63.00
43714	0.51	2.33	0.91	orange/yellow	6	63.00
43715	0.57	2.39	0.91	white/yellow	6	63.00
43716	0.64	2.46	0.91	orange/white	6	63.00
43717	0.76	2.48	0.86	black	6	63.00
43718	0.89	2.61	0.86	orange	6	63.00
43719	0.95	2.67	0.86	white/black	6	63.00
43720	1.02	2.74	0.86	white	6	63.00
43721	1.09	2.81	0.86	white/red	6	63.00
43722	1.14	2.86	0.86	red	6	63.00
43723	1.22	2.94	0.86	red/grey	6	63.00
43724	1.3	3.02	0.86	grey	6	63.00
43725	1.42	3.14	0.86	yellow	6	63.00
43726	1.52	3.24	0.86	yellow/blue	6	63.00
43727	1.65	3.37	0.86	blue	6	63.00
43728	1.75	3.47	0.86	blue/green	6	63.00
43729	1.85	3.57	0.86	green	6	63.00
43730	2.06	3.78	0.86	violet	6	63.00
43731	2.29	4.01	0.86	violet/black	6	63.00
43732	2.54	4.26	0.86	violet/orange	6	63.00
43733	2.79	4.51	0.86	violet/white	6	63.00

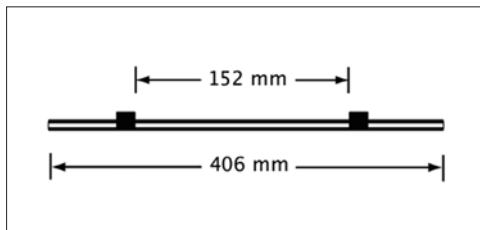
**TYGON®-Pump Tubing with 2 Stoppers for Fuel and Lubricant**

**Product specification**

- Durable precision pump tubing for routine use, made of dimensionally stable material for conveyance of aqueous media in the range of pH 1 to 10; fitted with two involved stoppers each for mounting in tubing cassettes; colour-coded for clearly organized use.
- For peristaltic pumps with tubing cassettes.
- Especially suitable for hydrocarbons such as gasolines, oils, kerosines
- Not suitable for strong acids/alkalis

**Technical specification**

- **Material:** TYGON®-F-4040-A
- **Colour:** yellowish-translucent
- **Shore hardness A:** 57° ±5° (DIN 53505)
- **Temperature range:** -12 to +65 °C
- **Sterilization:** autoclavable (+121 °C)
- **Fixed length:** 406.5 mm from end to end; with 2 coding riders, distance between the riders 154 mm



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
27108	0.25	2.07	0.91	orange/blau	6	87.00
27109	0.25	2.07	0.91	orange/blau	12	156.00
27110	0.38	2.2	0.91	orange/green	6	87.00
27111	0.38	2.2	0.91	orange/green	12	156.00
27112	0.51	2.33	0.91	orange/yellow	6	87.00
27113	0.51	2.33	0.91	orange/yellow	12	156.00
27114	0.64	2.46	0.91	orange/white	6	87.00
27115	0.64	2.46	0.91	orange/white	12	156.00
27118	0.89	2.57	0.84	orange	6	87.00
27119	0.89	2.57	0.84	orange	12	156.00
27120	1.02	2.7	0.84	white	6	87.00
27121	1.02	2.7	0.84	white	12	156.00
27122	1.14	2.82	0.84	red	6	87.00
27123	1.14	2.82	0.84	red	12	156.00
27029	1.3	2.98	0.84	grey	6	87.00
27030	1.3	2.98	0.84	grey	12	156.00
27031	1.42	3.1	0.84	yellow	6	87.00
27032	1.42	3.1	0.84	yellow	12	156.00
27033	1.52	3.2	0.84	yellow/blue	6	87.00
27034	1.52	3.2	0.84	yellow/blue	12	156.00
27035	1.65	3.33	0.84	blue	6	87.00
27036	1.65	3.33	0.84	blue	12	156.00
27037	1.85	3.53	0.84	green	6	87.00
27038	1.85	3.53	0.84	green	12	156.00
27039	2.06	3.74	0.84	violet	6	87.00
27040	2.06	3.74	0.84	violet	12	156.00
27041	2.29	3.97	0.84	violet/black	6	87.00
27042	2.29	3.97	0.84	violet/black	12	156.00
27043	2.54	4.22	0.84	violet/orange	6	87.00
27044	2.54	4.22	0.84	violet/orange	12	156.00

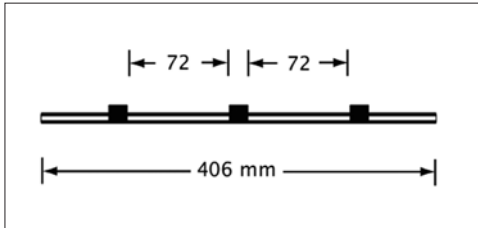
## TYGON®-Pump Tubing with 3 Stoppers

### Product specification

- For peristaltic pumps with tubing cassettes.
- Durable precision pump tubing for routine use, made of dimensionally stable material for conveyance of aqueous media in the range of pH 1 to 10; fitted with three involved stoppers each for mounting in tubing cassettes; colour-coded for clearly organized use.
- Usual applications in laboratories, non-toxic, non-aging, non-oxidizing, autoclavable.
- Good resistance to acids and alkalis.

### Technical specification

- **Material:** TYGON®-R-3607
- **Colour:** crystal-clear
- **Shore hardness A:** 55° ±5° (DIN 53505)
- **Temperature range:** -45 to +65 °C (for a short period +85 °C)
- **Sterilization:** autoclavable (+121 °C)
- **Fixed length:** 406 mm from end to end; with 3 coding riders, distance between the riders 72 mm



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43734	0.19	2.01	0.91	orange/rot	6	66.00
43735	0.25	2.07	0.91	orange/blau	6	66.00
43736	0.38	2.2	0.91	orange/green	6	66.00
43737	0.44	2.26	0.91	green/yellow	6	66.00
43738	0.51	2.33	0.91	orange/yellow	6	66.00
43739	0.57	2.39	0.91	white/yellow	6	66.00
43740	0.64	2.46	0.91	orange/white	6	66.00
43741	0.76	2.48	0.86	black	6	66.00
43742	0.89	2.61	0.86	orange	6	66.00
43743	0.95	2.67	0.86	white/black	6	66.00
43744	1.02	2.74	0.86	white	6	66.00
43745	1.09	2.81	0.86	white/red	6	66.00
43746	1.14	2.86	0.86	red	6	66.00
43747	1.22	2.94	0.86	red/grey	6	66.00
43748	1.3	3.02	0.86	grey	6	66.00
43749	1.42	3.14	0.86	yellow	6	66.00
43750	1.52	3.24	0.86	yellow/blue	6	66.00
43751	1.65	3.37	0.86	blue	6	66.00
43752	1.75	3.47	0.86	blue/green	6	66.00
43753	1.85	3.57	0.86	green	6	66.00
43754	2.06	3.78	0.86	violet	6	66.00
43755	2.29	4.01	0.86	violet/black	6	66.00
43756	2.54	4.26	0.86	violet/orange	6	66.00
43757	2.79	4.51	0.86	violet/white	6	66.00

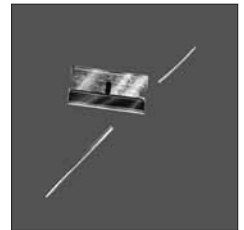
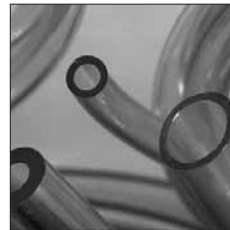
## TYGON®-Micro-Bore Tubing

### Product specification

- A special tubing for applications in surgery and medical engineering. Particularly suitable in clinical and biological laboratories. The tubing has a long working life, because it does neither age nor oxidize; less permeable than rubber, the material being denser. The tube is non-toxic, free from pyrogens, and compatible with blood; smooth inner wall, therefore no formation of deposits and consequently no influence of process results. Crystal-clear, soft and flexible.

### Technical specification

- **Material:** TYGON®-ND 100-65 (S-50-HL)
- **Colour:** crystal-clear
- **Shore hardness A:** 80° ±3° (ASTM D2240)
- **Temperature range:** -10 to +74 °C
- **Embrittlement temperature:** -31 °C
- **Tensile strength:** 18,6 MPa (ASTM D412)
- **Tearing strength:** 320 %
- **Tolerance:** DIN ISO 3302-1 E2
- **Sterilization:** steam (1 bar/30 min.); hot air (+93 °C); gas (ethylene oxide); gamma-rays (2.5 MRad)
- **Regulations:** USP Class VI



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	For needle size	Unit m	Price EURO
94066	0.25	0.76	0.25	30	30	246.00
94067	0.51	1.52	0.51	23	30	266.00
94068	0.76	2.29	0.76	20 - 21	30	328.00
94069	1.02	1.78	0.38	18 - 20	30	338.00
94070	1.27	2.29	0.51	17 - 18	30	348.00

## TYGON®-Tubing for Medical Engineering

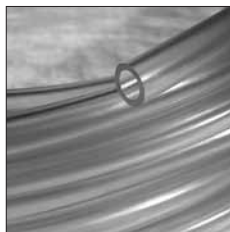
### Product specification

- A special tubing for applications in surgery and medical engineering. Particularly suitable for the use in heart-lung machines, artificial hearts etc., in clinical and biological laboratories. The tubing has a long working life, because it does neither age nor oxidize; less permeable than rubber, the material being denser. The tube is non-toxic, free from pyrogens, and compatible with blood; smooth inner wall, therefore no formation of deposits and consequently no influence of process results. Crystal-clear, soft, flexible and to use with peristaltic pumps.

### Technical specification

- **Material:** TYGON®-ND 100-80 (S-54-HL)
- **Colour:** crystal-clear
- **Shore hardness A:** 66° (ASTM D2240)
- **Temperature range:** -10 to +74 °C
- **Density:** 1.20 g/cm³
- **Embrittlement temperature:** -48 °C
- **Tensile strength:** 13.8 MPa (ASTM D412)

- **Tear resistance:** 28.9 kN/m (ASTM D1004)
- **Ultimate elongation:** 350 %
- **Tensile modulus:** 7.6 MPa at 200 % Elongation
- **Compression Set:** 53 % at +70 °C / 22 h
- **Dielectric strength:** 24.4 kV/mm (ASTM D149)
- **Water absorption:** 0.14 % at +23 °C / 24 h
- **Sterilization:** autoclavable; gas (ethylene oxide); gamma-rays (2.5 MRad)
- **Resistance to media:** good to strong acids, very good to weak acids, good to strong bases
- **Regulations:** ISO 10993, FDA, USP Class VI



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
92680	0.8	2.4	6.9	3	15.00
92681	0.8	2.4	6.9	9	34.00
92682	0.8	2.4	6.9	15	50.00
92683	1.6	3.2	3.8	3	18.00
92684	1.6	3.2	3.8	9	39.00
92685	1.6	3.2	3.8	15	56.00
92686	1.6	4.8	6.9	3	30.00
92687	1.6	4.8	6.9	9	69.00
92688	1.6	4.8	6.9	15	99.00
92689	2.4	4	2.7	3	22.00
92690	2.4	4	2.7	9	50.00
92691	2.4	4	2.7	15	71.00
92692	2.4	5.6	4.8	3	38.00
92693	2.4	5.6	4.8	9	88.00
92694	2.4	5.6	4.8	15	132.00
92695	3.2	4.8	2	3	27.00
92696	3.2	4.8	2	9	61.00
92697	3.2	4.8	2	15	90.00
92698	3.2	6.4	3.8	3	44.00
92699	3.2	6.4	3.8	9	103.00
92700	3.2	6.4	3.8	15	153.00
92701	4	5.6	1.7	3	30.00
92702	4	5.6	1.7	9	66.00
92703	4	5.6	1.7	15	100.00
92704	4	7.2	3.1	3	37.00
92705	4	7.2	3.1	9	90.00
92706	4	7.2	3.1	15	152.00
92707	4.8	6.4	1.4	3	29.00
92708	4.8	6.4	1.4	9	66.00
92709	4.8	6.4	1.4	15	100.00
92710	4.8	7.9	2.7	3	44.00
92711	4.8	7.9	2.7	9	91.00
92712	4.8	7.9	2.7	15	149.00
92713	4.8	9.5	3.8	3	75.00
92714	4.8	9.5	3.8	9	95.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
92715	4.8	9.5	3.8	15	210.00
92716	4.8	11.1	4.8	3	81.00
92718	4.8	11.1	4.8	9	165.00
92719	4.8	11.1	4.8	15	265.00
92720	6.4	7.9	1.2	3	34.00
92721	6.4	7.9	1.2	9	86.00
92722	6.4	7.9	1.2	15	124.00
92723	6.4	9.5	2	3	61.00
92724	6.4	9.5	2	9	116.00
92725	6.4	9.5	2	15	180.00
92726	6.4	11.1	3.1	3	100.00
92727	6.4	11.1	3.1	9	223.00
92728	6.4	11.1	3.1	15	280.00
92729	6.4	12.7	3.8	3	96.00
92730	6.4	12.7	3.8	9	218.00
92731	6.4	12.7	3.8	15	300.00
92732	8	11.1	1.7	3	76.00
92733	8	11.1	1.7	9	142.00
92734	8	11.1	1.7	15	195.00
92735	8	12.7	2.4	3	86.00
92736	8	12.7	2.4	9	187.00
92737	8	12.7	2.4	15	270.00
92738	8	14.3	3.1	3	104.00
92741	9.5	12.7	1.4	3	85.00
92742	9.5	12.7	1.4	9	158.00
92743	9.5	12.7	1.4	15	211.00
92744	9.5	14.3	2	3	91.00
92745	9.5	14.3	2	9	176.00
92746	9.5	14.3	2	15	257.00
92747	9.5	15.9	2.7	3	112.00
92748	9.5	15.9	2.7	9	283.00
92749	9.5	15.9	2.7	15	377.00
92752	11.1	15.9	1.7	3	97.00
92753	11.1	15.9	1.7	9	213.00
92754	11.1	17.5	2.4	3	120.00
92755	11.1	17.5	2.4	9	263.00
92756	12.7	15.9	1.2	3	82.00
92757	12.7	15.9	1.2	9	162.00
92758	12.7	17.5	1.7	3	93.00
92760	12.7	19	2	3	131.00
92761	12.7	19	2	9	286.00
92762	14.3	19	1.4	3	85.00
92763	14.3	19	1.4	9	198.00
92764	15.9	20.6	1.4	3	93.00
92765	15.9	20.6	1.4	9	215.00
92766	15.9	22.2	1.7	3	125.00
92767	15.9	22.2	1.7	9	278.00
92768	15.9	23.8	2	3	137.00
92770	19	25.4	1.3	3	127.00

<sup>1</sup> at +20 °C

## TYGON®-Laboratory and Vacuum Tubing

### Application area

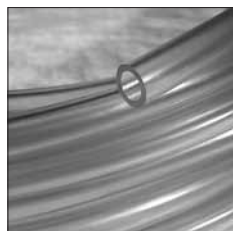
- Laboratory technology, medical engineering, pharmaceutical technology, process technology, chemical engineering, process engineering

### Product specification

- Conveying tubing, also for peristaltic pumps
- Good chemical resistance
- Good elastic behaviour, soft, flexible
- Very good mechanical stability
- Good resistance to oxydation, weather, and aging
- Lower permeability to gas than rubber because of higher density
- Absolutely smooth, polished inner surface, thus antiadhesive surface properties
- Characteristic: high resistance to extraction and swelling due to use of defined additives

### Technical specification

- **Material:** TYGON®-R-3603
- **Colour:** crystal-clear
- **Shore hardness A:** 55° (ASTM D2240-02)
- **Temperature range:** -10 to +74 °C
- **Density:** 1.18 g/cm<sup>3</sup>
- **Embrittlement temperature:** -50 °C
- **Tensile strength:** 11.4 MPa (ASTM D412-98)
- **Tear resistance:** 22 kN/m (ASTM D1004-94)
- **Ultimate elongation:** 450 % (ASTM D412-98)
- **Tensile modulus:** 4.5 MPa at 100 % Elongation
- **Compression set:** 61 % at +70 °C / 22 h
- **Dielectric strength:** 23.9 kV/mm (ASTM D149-97)
- **Water absorption:** 0.24 % at +23 °C / 24 h
- **Sterilization:** steam (1 bar/30 min.); Gas (Ethylenoxid)
- **Regulations:** FDA (21 CFR, 175.300)



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
92316	0.8	2.4	5.5	3	13.00
92317	0.8	2.4	5.5	9	32.00
92332	1.6	3.2	3.1	3	19.00
92333	1.6	3.2	3.1	9	50.00
92334	1.6	4.8	3.1	3	30.00
92335	1.6	4.8	3.1	9	78.00
92344	2.4	4	2	3	25.00
92345	2.4	4	2	9	75.00
92346	2.4	5.6	3.8	3	37.00
92347	2.4	5.6	3.8	9	96.00
92352	3.2	4.8	1.7	3	25.00
92353	3.2	4.8	1.7	9	61.00
92354	3.2	6.4	3.1	3	40.00
92355	3.2	6.4	3.1	9	109.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
92356	4	5.6	1.4	3	30.00
92357	4	5.6	1.4	9	66.00
92358	4	7.2	2.4	3	44.00
92359	4	7.2	2.4	9	119.00
92360	4.8	6.4	1.4	3	31.00
92361	4.8	6.4	1.4	9	80.00
92362	4.8	7.9	2	3	55.00
92363	4.8	7.9	2	9	86.00
92364	4.8	9.5	2.7	3	64.00
92365	4.8	9.5	2.7	9	183.00
92366	4.8	11.1	3.8	3	65.00
92367	4.8	11.1	3.8	9	249.00
92370	6.4	7.9	1	3	47.00
92371	6.4	7.9	1	9	110.00
92372	6.4	9.5	1.7	3	66.00
92373	6.4	9.5	1.7	9	165.00
92374	6.4	11.1	2.4	3	78.00
92375	6.4	11.1	2.4	9	233.00
92376	6.4	12.7	2.7	3	92.00
92377	6.4	12.7	2.7	9	278.00
92380	7.9	11.1	1.4	3	69.00
92381	7.9	11.1	1.4	9	180.00
92382	7.9	12.7	2	3	86.00
92383	7.9	12.7	2	9	245.00
92384	7.9	14.3	2.4	3	103.00
92385	7.9	14.3	2.4	9	288.00
92386	7.9	15.9	3.1	3	142.00
92387	7.9	15.9	3.1	9	405.00
92388	9.5	12.7	1.4	3	77.00
92389	9.5	12.7	1.4	9	204.00
92390	9.5	14.3	1.7	3	88.00
92391	9.5	14.3	1.7	9	240.00
92392	9.5	15.9	2	3	121.00
92393	9.5	15.9	2	9	346.00
92396	11.1	14.3	1	3	81.00
92397	11.1	14.3	1	9	219.00
92398	11.1	15.9	1.4	3	93.00
92399	11.1	15.9	1.4	9	270.00
92400	11.1	17.5	1.7	3	133.00
92401	11.1	17.5	1.7	9	381.00
92402	12.7	15.9	0.7	3	79.00
92403	12.7	15.9	0.7	9	234.00
92404	12.7	17.5	1.4	3	106.00
92405	12.7	17.5	1.4	9	305.00
92406	12.7	19	1.7	3	149.00
92407	12.7	19	1.7	9	426.00
92408	12.7	20.6	2	1	65.00
92409	12.7	20.6	2	3	178.00
92412	14.3	19	1	1	45.00
92413	14.3	19	1	3	129.00
92414	14.3	20.6	1.4	1	60.00
92415	14.3	20.6	1.4	3	159.00
92418	15.9	20.6	1	1	50.00
92419	15.9	20.6	1	3	125.00
92420	15.9	22.2	1.4	1	65.00



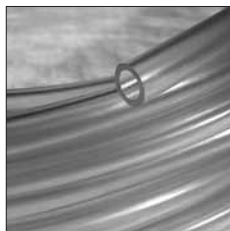
Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
92421	15.9	22.2	1.4	3	170.00
92422	15.9	23.8	1.7	1	77.00
92423	15.9	23.8	1.7	3	229.00
92426	17.5	22.2	1	1	55.00
92427	17.5	22.2	1	3	155.00
92432	19	25.4	1.2	1	70.00
92433	19	25.4	1.2	3	210.00
92438	19	31.8	2	1	156.00
92439	19	31.8	2	3	466.00
92444	22.2	30.2	1	1	101.00
92445	22.2	30.2	1	3	301.00
92448	25.4	31.8	1	1	88.00
92449	25.4	31.8	1	3	264.00
92464	31.8	38.1	0.8	1	108.00
92465	31.8	38.1	0.8	3	336.00
92466	31.8	41.4	1.3	1	175.00
92467	31.8	41.4	1.3	3	523.00
92470	38.1	47.7	1	1	198.00
92471	38.1	47.7	1	3	591.00

<sup>1</sup> at +20 °C

## TYGON®-Tubing for Food, Milk and Dairy

### Product specification

- A special tubing for food industry as well as for milk, milk products and dairy. Excellent resistance to strong alkaline detergents. The tubing meets the US FDA requirements. Long working life, because it does neither age nor oxidize. It is less permeable than rubber, the material being denser. The tube is non-toxic, odourless and tasteless, and not-soiling; smooth, polished inner wall, therefore no formation of deposits and consequently no influence of process results. Crystal-clear, soft and flexible.
- **Comment:** This product is not RoHS- and REACH-compliant, because the proportion of plasticisers (DEHP) is more than 0.1 %.



### Technical specification

- **Material:** TYGON®-B-44-4X-US
- **Colour:** crystal-clear
- **Shore hardness A:** 65°
- **Temperature range:** -10 to +74 °C
- **Density:** 1.21 g/cm<sup>3</sup>
- **Embrittlement temperature:** -44 °C
- **Tensile strength:** 14.5 MPa (ASTM D412)
- **Tear Resistance:** 35 kN/m (ASTM D1004)
- **Ultimate elongation:** 450 % (ASTM D412)
- **Tensile Modulus:** 12.1 MPa at 200 % Elongation
- **Compression Set:** 62 % at +70 °C / 22 h

- **Dielectric strength:** 20.4 kV/mm
- **Water Absorption:** 0.15 % (at +23 °C / 24 h)
- **Resistance to media:** excellent resistance to strong alkaline detergents
- **Regulations:** FDA (21 CFR, 175.300); 3-A® Plastics Standard; USA (NSF Standard 51)

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24499	0.8	2.4	6.9	3	18.00
24500	0.8	2.4	6.9	9	38.00
24501	0.8	2.4	6.9	15	55.00
24502	1.6	3.2	4.1	3	21.00
24503	1.6	3.2	4.1	9	47.00
24504	1.6	3.2	4.1	15	61.00
24505	1.6	4.8	6.9	3	33.00
24506	1.6	4.8	6.9	9	69.00
24507	1.6	4.8	6.9	15	95.00
24508	2.4	4	2.9	3	24.00
24509	2.4	4	2.9	9	53.00
24510	2.4	4	2.9	15	68.00
24511	2.4	5.6	6.9	3	33.00
24512	2.4	5.6	6.9	9	85.00
24513	2.4	5.6	6.9	15	120.00
24514	3.2	4.8	2.3	3	28.00
24515	3.2	4.8	2.3	9	58.00
24516	3.2	4.8	2.3	15	73.00
24517	3.2	6.4	4.1	3	40.00
24518	3.2	6.4	4.1	9	102.00
24519	3.2	6.4	4.1	15	136.00
24520	4	5.6	1.9	3	29.00
24521	4	5.6	1.9	9	61.00
24522	4	5.6	1.9	15	81.00
24523	4	7.2	3.4	3	42.00
24524	4	7.2	3.4	9	101.00
24525	4	7.2	3.4	15	158.00
24526	4.8	6.4	1.7	3	37.00
24527	4.8	6.4	1.7	9	79.00
24528	4.8	6.4	1.7	15	107.00
24529	4.8	7.9	2.9	3	55.00
24530	4.8	7.9	2.9	9	142.00
24531	4.8	7.9	2.9	15	190.00
24532	4.8	9.5	4.1	3	69.00
24533	4.8	9.5	4.1	9	183.00
24534	4.8	9.5	4.1	15	235.00
24535	4.8	11.1	4.9	3	87.00
24536	4.8	11.1	4.9	9	238.00
24538	6.4	7.9	1.5	3	45.00
24539	6.4	7.9	1.5	9	102.00
24540	6.4	7.9	1.5	15	132.00
24541	6.4	9.5	2.3	3	62.00
24542	6.4	9.5	2.3	9	160.00
24543	6.4	9.5	2.3	15	221.00
24544	6.4	11.1	3.2	3	81.00
24545	6.4	11.1	3.2	9	222.00
24546	6.4	11.1	3.2	15	371.00
24547	6.4	12.7	4.1	3	97.00
24548	6.4	12.7	4.1	9	265.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24549	6.4	12.7	4.1	15	442.00
24550	7.9	11.1	1.9	3	79.00
24551	7.9	11.1	1.9	9	204.00
24552	7.9	11.1	1.9	15	268.00
24553	7.9	12.7	2.7	3	93.00
24554	7.9	12.7	2.7	9	243.00
24555	7.9	12.7	2.7	15	390.00
24556	7.9	14.3	3.4	3	110.00
24557	7.9	14.3	3.4	9	281.00
24558	7.9	14.3	3.4	15	467.00
24562	9.5	12.7	1.7	3	74.00
24563	9.5	12.7	1.7	9	194.00
24564	9.5	14.3	2.3	3	96.00
24565	9.5	14.3	2.3	9	249.00
24566	9.5	15.9	3	3	121.00
24567	9.5	15.9	3	9	345.00
24568	11.1	14.3	1.5	3	84.00
24570	11.1	15.9	2	3	99.00
24572	12.7	15.9	1.3	3	84.00
24573	12.7	15.9	1.3	9	225.00
24574	12.7	19	2.3	3	150.00
24575	12.7	19	2.3	9	426.00
24576	12.7	20.6	2.7	3	178.00
24577	12.7	20.6	2.7	9	533.00
24578	14.3	19	1.7	3	112.00
24580	15.9	20.6	1.5	3	125.00
24581	15.9	20.6	1.5	9	373.00
24582	15.9	22.2	2	3	163.00
24583	15.9	22.2	2	9	486.00
24584	15.9	23.8	2.7	3	196.00
24585	15.9	23.8	2.7	9	470.00
24596	25.4	31.8	2	3	217.00
24597	25.4	31.8	2	6	455.00
24614	38.1	50.8	1.5	3	480.00
24615	38.1	50.8	1.5	6	672.00
24616	44.5	57.2	1	3	505.00
24617	44.5	57.2	1	6	707.00

<sup>1</sup> at +20 °C

### TYGON®-Tubing for Food, Milk and Dairy (compliant to REACH and RoHS)

#### Application area

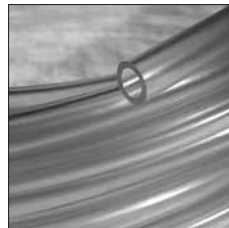
- Aseptic filling, condiment dispensing, dairy processing, vitamin and flavor concentrate systems, soft-serve dispensing

#### Product specification

- The new formulation does not contain any phthalate and is compatible with foods (also with a high oil content), milk and dairy products
- Smooth, non-porous bore will not trap particulates or promote bacterial growth.
- Resistant to harsh alkaline cleaners and sanitizers
- Excellent alternative to rigid piping systems
- Contains no BPA or phthalates
- Complies with FDA, NSF, 3-A, Japan Food Sanitation Law #370/1959, REACH, 1935/2004/EC and 10/2011/EU for many foods and beverages

#### Technical specification

- **Material:** TYGON S3®-B-44-4X-EU
- **Colour:** crystal-clear
- **Shore hardness A:** 66°
- **Temperature range:** -36 to +74 °C
- **Density:** 1.2 g/cm<sup>3</sup>
- **Tensile strength:** 15.8 MPa (ASTM D412)
- **Ultimate elongation:** 390 % (ASTM D412)
- **Tear resistance:** 43.8 kN/m /ASTM D1004)
- **Tensile modulus:** 9.5 MPa at 200 % elongation
- **Tensile set:** 57 %
- **Water Absorption:** 0.22 % (at +23 °C / 24 h)
- **Compression Set:** 59 % constant deflection at +70 °C / 22 hours



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24705	0.8	2.4	6.9	3	18.00
24706	0.8	2.4	6.9	9	38.00
24707	0.8	2.4	6.9	15	55.00
24708	1.6	3.2	4.1	3	21.00
24709	1.6	3.2	4.1	9	47.00
24710	1.6	3.2	4.1	15	61.00
24711	3.2	4.8	2.3	3	28.00
24712	3.2	4.8	2.3	9	58.00
24713	3.2	4.8	2.3	15	73.00
24714	3.2	6.4	4.1	3	40.00
24715	3.2	6.4	4.1	9	102.00
24716	3.2	6.4	4.1	15	136.00
24717	4	7.2	3.4	3	42.00
24718	4	7.2	3.4	9	101.00
24719	4	7.2	3.4	15	158.00
24720	4.8	7.9	2.9	3	55.00
24721	4.8	7.9	2.9	9	142.00
24722	4.8	7.9	2.9	15	190.00
24723	6.4	9.5	2.3	3	62.00
24724	6.4	9.5	2.3	9	160.00
24725	6.4	9.5	2.3	15	221.00
24872	7.9	11.1	1.9	3	79.00
24873	7.9	11.1	1.9	9	204.00
24874	7.9	11.1	1.9	15	268.00
24726	9.5	12.7	1.7	3	74.00
24727	9.5	12.7	1.7	9	194.00
24728	9.5	15.9	3	3	121.00
24729	9.5	15.9	3	9	345.00
24730	12.7	15.9	1.3	3	84.00
24731	12.7	15.9	1.3	9	225.00
24732	12.7	19	2	3	150.00
24733	12.7	19	2	9	426.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24734	15.9	22.2	2	3	163.00
24735	15.9	22.2	2	9	486.00
24736	19	25.4	2	3	183.00
24737	19	25.4	2	9	498.00
24738	25.4	31.8	2	3	217.00
24739	25.4	31.8	2	9	455.00

<sup>1</sup> at +20 °C

### TYGON®-Pressure Tubing

#### Product specification

- A special pressure tubing for food industry as well as for milk and milk products. Excellent resistance to strong alkaline detergents. The tubing meets the US FDA requirements. Long working life, because it does neither age nor oxidize. It is less permeable than rubber, the material being denser. The tube is non-toxic, odourless and tasteless, and not-soiling; smooth, polished inner wall, therefore no formation of deposits and consequently no influence of process results. Crystal-clear, soft and flexible.
- **Comment:** This product is not RoHS- and REACH-compliant, because the proportion of plasticisers (DEHP) is more than 0.1 %.

#### Technical specification

- **Material:** TYGON®-B-44-4X-IB-US
- **Colour:** crystal-clear
- **Shore hardness A:** 65° (ASTM D2240-02)
- **Temperature range:** -20 to +74 °C
- **Density:** 1.21 g/cm<sup>3</sup>
- **Embrittlement temperature:** -44 °C
- **Tensile strength:** 14.5 MPa (ASTM D412)
- **Tear resistance:** 35 kN/m (ASTM D1004)
- **Ultimate elongation:** 450 % (ASTM D412-98)
- **Tensile modulus:** 7.9 MPa at 100 % Elongation
- **Compression set:** 62 % at +70 °C / 22 h
- **Dielectric strength:** 20.3 kV/mm
- **Water absorption:** 0.15 % at +23 °C / 24 h
- **Resistance to media:** excellent resistance to strong alkaline detergents
- **Regulations:** FDA (21 CFR, 175.300); 3-A® Plastics Standard; USA (NSF Standard 51)



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Bursting pressure bar	Unit m	Price EURO
92300	6.4	11.1	17	70	1	39.00
92301	6.4	11.1	17	70	3	105.00
92320	6.4	11.1	17	70	6	178.00
92302	9.5	15.9	11	41	1	60.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Bursting pressure bar	Unit m	Price EURO
92303	9.5	15.9	11	41	3	162.00
92321	9.5	15.9	11	41	6	275.00
92304	12.7	17.5	14	55	1	54.00
92305	12.7	17.5	14	55	3	145.00
92322	12.7	17.5	14	55	6	247.00
92306	15.9	22.2	11	37	1	76.00
92307	15.9	22.2	11	37	3	205.00
92323	15.9	22.2	11	37	6	348.00
92308	19	25.4	10	33	1	88.00
92309	19	25.4	10	33	3	237.00
92324	19	25.4	10	33	6	404.00
92312	38.1	50.8	5.1	20	1	347.00
92313	38.1	50.8	5.1	20	3	936.00
92326	38.1	50.8	5.1	20	6	1,592.00

<sup>1</sup> at +20 °C

### TYGON®-Acid and Alkali Tubing

#### Product specification

- A special tubing meeting highest requirements in chemistry and industry, black, light-tight; very good resistance to strong acids. Not usable for food, beverages, and pharmaceuticals. Long working life, because it does neither age nor oxidize. It is less permeable than rubber, the material being denser. Smooth, polished inner wall, therefore no formation of deposits and consequently no influence of process results. Soft and flexible.
- Ozone and UV resistant
- Excellent burn resistance

#### Technical specification

- **Material:** TYGON®-R-3400
- **Colour:** black, light-tight
- **Shore hardness A:** 64° (ASTM D2240-02)
- **Temperature range:** -10 to +74 °C
- **Density:** 1.31 g/cm<sup>3</sup>
- **Embrittlement temperature:** -21 °C
- **Tensile strength:** 15.5 MPa (ASTM D412-98)
- **Tear Resistance:** 32 kN/m (ASTM D1004)
- **Ultimate elongation:** 350 % (ASTM D412-98)
- **Tensile Modulus:** 6.9 MPa at 100 % Elongation
- **Compression Set:** 64 % at +70 °C / 22 h
- **Dielectric strength:** 19.3 kV/mm (ASTM D149-97)
- **Water Absorption:** 0.19 % at +23 °C / 24 h
- **Regulations:** UL 94 V-0, UL 94 HB



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24638	1.6	3.2	4.1	3	17.00
24639	1.6	3.2	4.1	9	44.00
24640	1.6	3.2	4.1	15	57.00
24641	2.4	4	3.1	3	20.00
24642	2.4	4	3.1	9	51.00
24643	2.4	4	3.1	15	66.00
24644	2.4	5.6	5.5	3	37.00
24645	2.4	5.6	5.5	9	88.00
24646	2.4	5.6	5.5	15	115.00
24647	3.2	6.4	4.1	3	39.00
24648	3.2	6.4	4.1	9	102.00
24649	3.2	6.4	4.1	15	132.00
24650	4	7.2	3.4	3	44.00
24651	4	7.2	3.4	9	106.00
24652	4	7.2	3.4	15	151.00
24653	4.8	6.4	1.7	3	32.00
24654	4.8	6.4	1.7	9	83.00
24655	4.8	6.4	1.7	15	109.00
24656	4.8	7.9	3.1	3	51.00
24657	4.8	7.9	3.1	9	132.00
24658	4.8	7.9	3.1	15	182.00
24662	6.4	9.5	2.4	3	61.00
24663	6.4	9.5	2.4	9	157.00
24664	6.4	9.5	2.4	15	221.00
24665	6.4	11.1	3.4	3	96.00
24666	6.4	11.1	3.4	9	249.00
24667	6.4	11.1	3.4	15	371.00
24668	7.9	11.1	2	3	68.00
24669	7.9	11.1	2	9	177.00
24628	7.9	11.1	2	15	221.00
24670	9.5	12.7	1.7	3	80.00
24671	9.5	12.7	1.7	9	208.00
24629	9.5	12.7	1.7	15	260.00
24672	9.5	15.9	3.1	3	116.00
24673	9.5	15.9	3.1	9	346.00
24630	9.5	15.9	3.1	15	432.00
24674	11.1	14.3	1.3	3	74.00
24675	11.1	14.3	1.3	9	219.00
24631	11.1	14.3	1.3	15	273.00
24676	12.7	19	2.4	3	143.00
24680	19	25.4	2	3	211.00

<sup>1</sup> at +20 °C

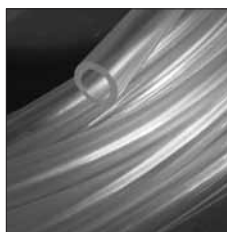
## TYGON®-Tubing for Fuel and Lubricant

### Product specification

- A special tubing for fuels and lubricants, for lead-containing or unleaded gasoline (with or without additives such as boron, tricresylphosphate or manganese). Also well usable for kerosine, heating oil, cutting fluids, and cooling agents on glycol base. Not usable for strong bases, strong acids, food, beverages, and pharmaceuticals. Long working life, because it does neither age nor oxidize. It is less permeable than rubber, the material being denser. Smooth, polished inner wall, therefore no formation of deposits and consequently no influence of process results. Translucent, soft, and flexible.
- Ozone and UV-light resistant.

### Technical specification

- **Material:** TYGON®-F-4040-A
- **Colour:** yellow, translucent
- **Shore hardness A:** 57° (ASTM D2240)
- **Temperature range:** -10 to +74 °C
- **Density:** 1.26 g/cm<sup>3</sup>
- **Embrittlement temperature:** -37 °C
- **Tensile strength:** 12.5 MPa (ASTM D412)
- **Tear Resistance:** 29 kV/m (ASTM D1004)
- **Ultimate elongation:** 310 % (ASTM D412)
- **Tensile modulus:** 6.3 MPa at 100 % Elongation
- **Compression Set:** 65 % at +70 °C / 22 h
- **Dielectric strength:** 15.8 kV/mm (ASTM D149)
- **Water absorption:** 0.49 % at +23 °C / 24 h
- **Resistance to media:** good to weak acids; less good to strong acids; relatively good to weak alkalis; poor to strong alkalis; medium resistance to solvents



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
24682	3.2	6.4	3.4	3	37.00
24683	3.2	6.4	3.4	9	96.00
24684	3.2	6.4	3.4	15	130.00
24685	4.8	7.9	2.4	3	47.00
24686	4.8	7.9	2.4	9	124.00
24687	4.8	7.9	2.4	15	181.00
24688	6.4	9.5	2	3	57.00
24689	6.4	9.5	2	9	148.00
24690	6.4	9.5	2	15	221.00
24694	7.9	11.1	1.7	3	66.00
24695	7.9	11.1	1.7	9	172.00
24696	7.9	11.1	1.7	15	265.00
24697	9.5	12.7	1.3	3	80.00
24698	9.5	12.7	1.3	9	208.00
24699	11.1	14.3	1	3	87.00
24700	11.1	14.3	1	9	226.00
24701	12.7	19	2	3	156.00
24702	12.7	19	2	9	426.00
24703	15.9	22.2	1.7	3	178.00
24704	15.9	22.2	1.7	9	486.00

<sup>1</sup> at +20 °C

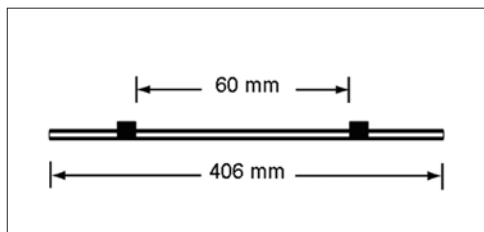
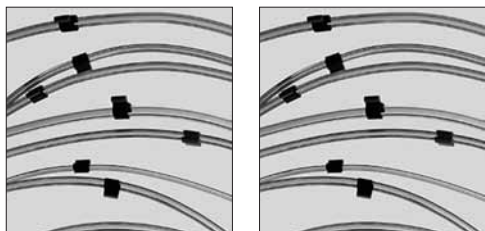
## THOMAFLUID®-PVC Pump Tubing with 2 Stoppers - distance 60 mm

### Product specification

- For precise metering of reagents in micro analytics and micro process control.
- Resistant precision chemical pump tubing made of a special heavy-duty PVC formulation for routine use for conveyance of aqueous media and salt solutions, alcohols, mineral acids and alkaline lyes, also concentrated ones.
- The used raw materials meet the recommendations of the BfR and are approved.
- During formulation development the testing procedures according to USP XXI Class VI are performed. The tubing standard is in conformity with these regulations. The production of THOMAFLUID® micro pump tubing meets the requirements of the US Federal Standard 209 B, air purity class 10000.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 65° ±5° (DIN 53505)
- **Temperature range:** -10 to +60 °C
- **Accuracy of conveyance:** ±5 % (normal tolerance)
- **Fixed length:** 406 mm from end to end fitted with coding riders, distance between the riders 60 mm



Item	Inside Ø mm	Outside Ø mm	Colour code	Unit piece	Price EURO
27009	0.13	1.95	orange/black	6	66.00
27010	0.13	1.95	orange/black	12	114.00
27011	0.19	2.01	orange/rot	6	66.00
27012	0.19	2.01	orange/rot	12	114.00
27013	0.25	2.07	orange/blau	6	66.00
27014	0.25	2.07	orange/blau	12	114.00
27015	0.38	2.2	orange/green	6	66.00
27016	0.38	2.2	orange/green	12	114.00
27019	0.64	2.32	orange/white	6	66.00
27020	0.64	2.32	orange/white	12	114.00
27021	0.76	2.44	black	6	66.00
27022	0.76	2.44	black	12	114.00

Item	Inside Ø mm	Outside Ø mm	Colour code	Unit piece	Price EURO
27023	0.89	2.57	orange	6	66.00
27024	0.89	2.57	orange	12	114.00
27025	1.02	2.7	white	6	66.00
27026	1.02	2.7	white	12	114.00
27124	1.3	2.98	grey	6	66.00
27125	1.3	2.98	grey	12	114.00
27126	1.42	3.1	yellow	6	66.00
27127	1.42	3.1	yellow	12	114.00
27128	1.52	3.2	yellow/blue	6	66.00
27129	1.52	3.2	yellow/blue	12	114.00
27130	1.65	3.33	blue	6	66.00
27131	1.65	3.33	blue	12	114.00
27132	1.86	3.54	green	6	66.00
27133	1.86	3.54	green	12	114.00
27134	2.06	3.74	violet	6	66.00
27135	2.06	3.74	violet	12	114.00
27136	2.29	3.97	violet/black	6	66.00
27138	2.54	4.22	violet/orange	6	66.00
27139	2.54	4.22	violet/orange	12	114.00
27140	2.79	4.47	violet/white	6	66.00
27141	2.79	4.47	violet/white	12	114.00

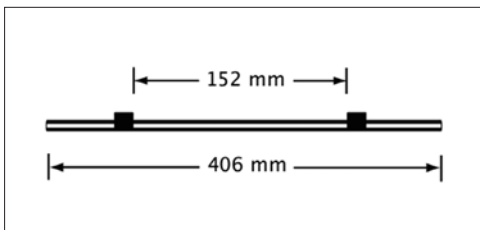
## THOMAFLUID®-PVC Pump Tubing with 2 Stoppers - distance 152 mm

### Product specification

- For peristaltic pumps with tubing cassettes.
- Resistant precision chemical pump tubing made of a special heavy-duty PVC formulation for routine use for conveyance of aqueous media and salt solutions, alcohols, mineral acids and alkaline lyes, also concentrated ones; fitted with two involved stoppers each for mounting in tubing cassettes, colour-coded for clearly organized use.
- Application-oriented, precision adjusted inside diameters from 0.127 to 2.794 mm; total length: 406 mm; distance between stoppers: approx. 152 mm; delivered as package of 6 pieces each.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 65° ±5° (DIN 53505)
- **Temperature range:** -10 to +60 °C



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
27104	0.127	2.007	0.94	orange/black	6	63.00
27105	0.127	2.007	0.94	orange/black	12	99.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
27106	0.191	2.032	0.92	orange/rot	6	63.00
27107	0.191	2.032	0.92	orange/rot	12	99.00
43817	0.254	2.054	0.9	orange/blau	6	63.00
43818	0.381	2.181	0.9	orange/green	6	63.00
43819	0.508	2.208	0.85	orange/yellow	6	63.00
43820	0.635	2.435	0.9	orange/white	6	63.00
43821	0.762	2.362	0.8	black	6	63.00
43822	0.889	2.489	0.8	orange	6	63.00
43823	1.016	2.716	0.85	white	6	63.00
43824	1.143	2.743	0.8	red	6	63.00
43825	1.295	2.795	0.75	grey	6	63.00
43826	1.442	3.042	0.8	yellow	6	63.00
43827	1.524	3.024	0.75	yellow/blue	6	63.00
43828	1.651	3.251	0.8	blue	6	63.00
43829	1.854	3.554	0.85	green	6	63.00
43830	2.057	3.657	0.8	violet	6	63.00
43831	2.286	3.986	0.85	violet/black	6	63.00
43832	2.54	4.14	0.8	violet/orange	6	63.00
43833	2.794	4.594	0.9	violet/white	6	63.00

### THOMAFLUID®-PVC Micro Pump Tubing

#### Application area

- For precise metering of reagents in micro analytics and micro process control

#### Product specification

- THOMAFLUID® micro pump tubing are made of polyvinyl chloride by addition of carefully selected additives. The production of THOMAFLUID® micro pump tubing meets the requirements of the US Federal Standard 209 B, air purity class 10000.

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 61° ±5° (DIN 53505)
- **Temperature range:** -32 to +60 °C
- **Density:** 1.20 g/cm³ (DIN 53479)
- **Elongation at break:** 400 %
- **Tensile strength:** 14.3 MPa
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
27142	0.13	2.01	5	61.00
27144	0.13	2.01	10	112.00
27143	0.13	2.01	15	153.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
27145	0.19	2.03	5	61.00
27147	0.19	2.03	10	112.00
27146	0.19	2.03	15	153.00
27148	0.25	2.08	5	61.00
27150	0.25	2.08	10	112.00
27149	0.25	2.08	15	153.00
27151	0.38	2.21	5	61.00
27153	0.38	2.21	10	112.00
27152	0.38	2.21	15	153.00
27154	0.51	2.34	5	61.00
27156	0.51	2.34	10	112.00
27155	0.51	2.34	15	153.00
27157	0.64	2.46	5	61.00
27159	0.64	2.46	10	112.00
27158	0.64	2.46	15	153.00
27160	0.76	2.44	5	61.00
27162	0.76	2.44	10	112.00
27161	0.76	2.44	15	153.00
27163	0.89	2.57	5	61.00
27165	0.89	2.57	10	112.00
27164	0.89	2.57	15	153.00
27166	1.02	2.69	5	61.00
27168	1.02	2.69	10	112.00
27167	1.02	2.69	15	153.00
27169	1.14	2.82	5	61.00
27171	1.14	2.82	10	112.00
27170	1.14	2.82	15	153.00
27172	1.3	2.97	5	61.00
27174	1.3	2.97	10	112.00
27173	1.3	2.97	15	153.00
27175	1.42	3.1	5	61.00
27177	1.42	3.1	10	112.00
27176	1.42	3.1	15	153.00
27178	1.52	3.2	5	61.00
27180	1.52	3.2	10	112.00
27179	1.52	3.2	15	153.00
27181	1.65	3.33	5	61.00
27183	1.65	3.33	10	112.00
27182	1.65	3.33	15	153.00
27184	1.85	3.53	5	61.00
27186	1.85	3.53	10	112.00
27185	1.85	3.53	15	153.00
27187	2.06	3.73	5	61.00
27189	2.06	3.73	10	112.00
27188	2.06	3.73	15	153.00
27190	2.29	3.96	5	61.00
27192	2.29	3.96	10	112.00
27191	2.29	3.96	15	153.00
27193	2.54	4.22	5	61.00
27195	2.54	4.22	10	112.00
27194	2.54	4.22	15	153.00
27196	2.79	4.47	5	61.00
27198	2.79	4.47	10	112.00
27197	2.79	4.47	15	153.00

## THOMAFLUID®-PVC Micro Pump Tubing for Fuels

### Application area

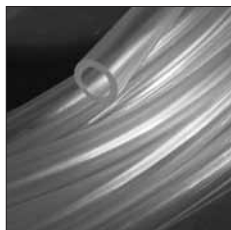
- For precise metering of reagents in micro analytics and micro process control

### Product specification

- THOMAFLUID® micro pump tubing, made of polyvinyl chloride, are manufactured using a particularly developed polyvinyl formulation. They are distinguished by their high extraction and swelling resistance, especially to solvents and fuels.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** yellowish-translucent
- **Shore hardness A:** 61° ±5° (DIN 53505)
- **Temperature range:** -32 to +60 °C
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>
- **Density:** approx. 1.20 g/cm<sup>3</sup> (DIN 53479)
- **Elongation at break:** up to 400 %
- **Tensile strength:** 14.3 MPa
- **Regulations:** BfR; US Federal Standard 209 B; air purity class 10000



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
27047	0.13	2.01	5	82.00
27048	0.13	2.01	15	208.00
27050	0.19	2.03	5	82.00
27051	0.19	2.03	15	208.00
27053	0.25	2.08	5	82.00
27054	0.25	2.08	15	208.00
27056	0.38	2.21	5	82.00
27057	0.38	2.21	15	208.00
27059	0.51	2.34	5	82.00
27060	0.51	2.34	15	208.00
27062	0.64	2.46	5	82.00
27063	0.64	2.46	15	208.00
27065	0.76	2.44	5	82.00
27066	0.76	2.44	15	208.00
27068	0.89	2.57	5	82.00
27069	0.89	2.57	15	208.00
27071	1.02	2.69	5	82.00
27072	1.02	2.69	15	208.00
27074	1.14	2.82	5	82.00
27075	1.14	2.82	15	208.00
27077	1.3	2.97	5	82.00
27078	1.3	2.97	15	208.00
27080	1.42	3.1	5	82.00
27081	1.42	3.1	15	208.00
27083	1.52	3.2	5	82.00
27084	1.52	3.2	15	208.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
27086	1.65	3.33	5	82.00
27087	1.65	3.33	15	208.00
27089	1.85	3.53	5	82.00
27090	1.85	3.53	15	208.00
27092	2.06	3.73	5	82.00
27093	2.06	3.73	15	208.00
27095	2.29	3.96	5	82.00
27096	2.29	3.96	15	208.00
27098	2.54	4.22	5	82.00
27099	2.54	4.22	15	208.00
27101	2.79	4.47	5	82.00
27102	2.79	4.47	15	208.00

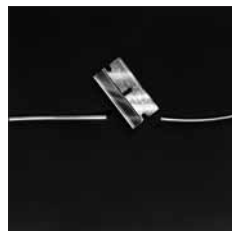
## THOMAFLUID®-PVC Micro Catheter Chemical Tubing

### Product specification

- Micro catheter tubing is made of elastic polyvinyl chloride (PVC) by addition of carefully selected additives. The used raw materials meet the recommendations of the BfR. The material combination is distinguished by its high resistance to extraction and swelling. The used additives are carefully selected and are subject to strict quality control.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 60°
- **Temperature range:** -20 to +60 °C
- **Density:** 1.19 g/cm<sup>3</sup>
- **Tearing strength:** 10.5 N/mm<sup>2</sup>
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28393	0.2	0.5	5	50.00
28394	0.2	0.5	15	118.00
28395	0.28	0.61	5	50.00
28396	0.28	0.61	15	118.00
28397	0.35	1.05	5	50.00
28398	0.35	1.05	15	118.00
28399	0.4	0.8	5	50.00
28400	0.4	0.8	15	118.00
28401	0.5	0.8	5	50.00
28402	0.5	0.8	15	118.00
28405	0.5	1	5	50.00
28406	0.5	1	15	118.00
28407	0.5	1.5	5	61.00
28408	0.5	1.5	15	144.00

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
28409	0.58	0.96	5	61.00
28410	0.58	0.96	15	144.00
28411	0.75	1.45	5	61.00
28412	0.75	1.45	15	144.00
28413	0.8	1.2	5	61.00
28414	0.8	1.2	15	144.00
28415	0.86	1.27	5	61.00
28416	0.86	1.27	15	144.00
28417	0.86	1.52	5	61.00
28418	0.86	1.52	15	144.00
28419	0.97	1.27	5	61.00
28420	0.97	1.27	15	144.00
28421	1	1.5	5	61.00
28422	1	1.5	15	144.00
28429	1.5	2.5	5	71.00
28430	1.5	2.5	15	167.00
28431	1.5	2.7	5	71.00
28432	1.5	2.7	15	167.00
28435	2	3	5	71.00
28436	2	3	15	167.00

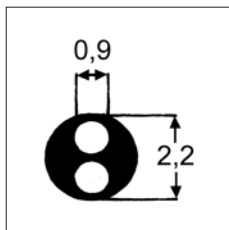
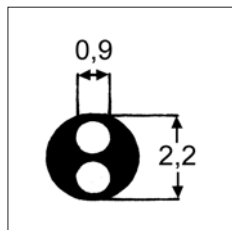
### THOMAFLUID®-PVC Multi-Lumen Micro Catheter Chemical Tubing

#### Product specification

• Micro catheter tubing is made of elastic polyvinyl chloride (PVC) by addition of carefully selected additives. The used raw materials meet the recommendations of the BfR. The material combination is distinguished by its high resistance to extraction and swelling. The used additives are carefully selected and are subject to strict quality control.

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 60°
- **Temperature range:** -20 to +60 °C
- **Density:** 1.19 g/cm<sup>3</sup>
- **Tearing strength:** 10.5 N/mm<sup>2</sup>
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>

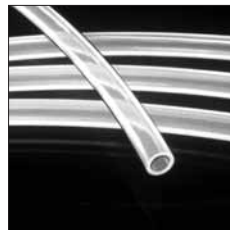


Item	Inside Ø mm	Outside Ø mm	Number of lumens	Unit m	Price EURO
28442	0.9	2.2	2	5	91.00
28443	0.9	2.2	2	15	209.00
28450	0.78	2	3	5	104.00
28451	0.78	2	3	15	238.00

### THOMAFLUID®-PVC Pump Tubing - cross-linked, imperial

#### Technical specification

- **Material:** PVC, cross-linked (polyvinyl chloride, Masterflex®-6509)
- **Colour:** crystal-clear
- **Shore hardness A:** 60° ±3° (DIN 53505)
- **Temperature range:** -30 to +74 °C, for a short time +120 °C
- **Sterilization:** autoclavable (+121 °C); gas (ethylene oxide)
- **Regulations:** FDA 21 CFR 175.300
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
971231	0.8	4	1	27.00
971232	0.8	4	7.5	155.00
971241	1.6	4.8	1	27.00
971242	1.6	4.8	7.5	155.00
971261	3.2	6.4	1	32.00
971262	3.2	6.4	7.5	188.00
971291	4.8	7.9	1	35.00
971292	4.8	7.9	7.5	212.00
971251	4.8	9.5	1	37.00
971252	4.8	9.5	7.5	236.00
971271	6.4	9.5	1	37.00
971272	6.4	9.5	7.5	236.00
971281	7.9	11.1	1	37.00
971282	7.9	11.1	7.5	234.00

### THOMAFLUID®-High-Med-PVC Vinyl Pump Tubing

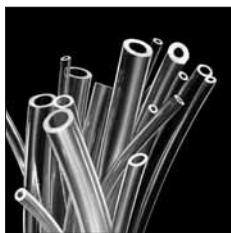
#### Product specification

- Conveying tubing
- Kinking-resistant and highly flexible
- Absolutely smooth surface, counteracting concentration of bacteria
- Non-toxic, free from pyrogens, and compatible with blood (tolerated by blood)
- Thermosensitive, immediately adapting to body temperature without decrease in lumen size
- Application area medical engineering

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 58°
- **Mechanical behaviour:** very soft and elastic
- **Temperature range:** -30 to +60 °C
- **Density:** 1.20 g/cm<sup>3</sup>
- **Elongation at break:** 400 %
- **Tensile strength:** 14.3 MPa
- **Tolerance:** DIN ISO 3302-1 E2





Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
11506	0.5	1	0.25	15	81.00
11507	0.5	1.5	0.5	15	81.00
11508	0.5	3.7	1.6	15	110.00
11509	0.8	4	1.6	15	110.00
11510	1	2	0.5	15	82.00
11511	1	3	1	15	84.00
11512	1.5	2.5	0.5	15	82.00
11513	1.5	3.5	1	15	84.00
11514	1.6	4.8	1.6	15	129.00
11515	2	4	1	15	84.00
11516	2.5	5.7	1.6	15	137.00
11517	3	5	1	15	106.00
11518	3.2	4.8	0.8	15	106.00
11520	3.2	6.4	1.6	15	167.00
11521	4	6	1	15	142.00
11522	4.8	6.4	0.8	15	118.00
11523	4.8	7.9	1.6	15	180.00
11524	6.4	8	0.8	15	148.00
11525	6.4	9.5	1.6	15	198.00
11527	8	11.1	1.6	15	228.00
11528	8	14.3	3.2	15	251.00
11529	9.5	12.7	1.6	15	238.00
11530	9.5	15.9	3.2	15	266.00
11531	12.7	19	3.2	15	302.00
11532	15.9	22.2	3.2	15	374.00
11533	19	25.4	3.2	15	440.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Design	Unit m	Price EURO
10094	0.6	1.4	2.9	thin-walled	5	23.00
10095	0.6	1.4	2.9	thin-walled	15	59.00
10096	1	2	2.7	thin-walled	5	25.00
10097	1	2	2.7	thin-walled	15	65.00
10098	2	3	1.5	thin-walled	5	26.00
10099	2	3	1.5	thin-walled	15	67.00
10100	3	4.3	1.2	thin-walled	5	39.00
10101	3	4.3	1.2	thin-walled	15	101.00
10102	3.5	5	1.4	thin-walled	5	40.00
10103	3.5	5	1.4	thin-walled	15	105.00
10104	4	6	1.6	thin-walled	5	45.00
10105	4	6	1.6	thin-walled	15	117.00
10106	5	7	1.3	thin-walled	3	38.00
10107	5	7	1.3	thin-walled	9	100.00
10108	6	7.6	1	thin-walled	3	40.00
10112	7	9.5	1	thin-walled	3	56.00
10113	7	9.5	1	thin-walled	9	145.00
10114	8	11	1.1	thin-walled	3	56.00
10115	8	11	1.1	thin-walled	9	145.00
10122	3	5	2.7	thick-walled	5	37.00
10123	3	5	2.7	thick-walled	15	96.00
10124	4	7	2.8	thick-walled	5	75.00
10125	4	7	2.8	thick-walled	15	196.00
10126	5	8	2	thick-walled	3	45.00
10127	5	8	2	thick-walled	9	118.00
10128	5	10	2.8	thick-walled	3	74.00
10129	5	10	2.8	thick-walled	9	195.00
10130	6	9	1.6	thick-walled	3	51.00
10131	6	9	1.6	thick-walled	9	132.00
10132	7	10.5	1.6	thick-walled	3	61.00
10133	7	10.5	1.6	thick-walled	9	158.00
10134	8	12	1.3	thick-walled	3	79.00
10135	8	12	1.3	thick-walled	9	206.00
10136	9	13.5	1.6	thick-walled	3	90.00
10137	9	13.5	1.6	thick-walled	9	236.00
10138	10	15	1.1	thick-walled	3	92.00
10139	10	15	1.1	thick-walled	9	240.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-High-Med-PVC Vinyl Tubing for Medical Engineering

### Product specification

- Conveying tubing, kinking-resistant and flexible.
- Absolutely smooth surface, counteracting concentration of bacteria.
- Non-toxic, free from pyrogens, and compatible with blood (tolerated by blood).
- Thermosensitive, immediately adapting to body temperature without decrease in lumen size.

### Technical specification

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** milky, but translucent
- **Shore hardness A:** 80°
- **Temperature range:** -20 to +80 °C
- **Sterilization:** autoclavable (+136 °C)
- **Elongation at break:** approx. 310 %

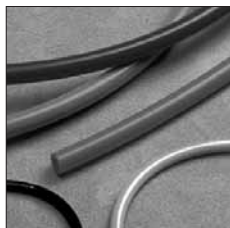
## THOMAFLUID®-High-Tech-PVC Colour Chemical Tubing - imperial, shore 45

### Product specification

- Very high flexibility.
- Good mechanical stability.
- Non-toxic, pyrogen-free.
- Good resistance to aging and weather.
- Very good dielectric properties.
- Hardly inflammable.
- Antiadhesive surface.
- Resistant to most dilute and concentrated acids (e.g. hydrochloric acid, dilute nitric acid, dilute chromic acid) as well as aqueous salt solutions.
- Resistant to mineral and vegetable oils, paraffin oil, alcohol, gasoline, aliphatic hydrocarbons (e.g. pentane, octane), and long-chain fatty acids.

**Technical specification**

- **Material:** PVC (polyvinyl chloride) - highly cross-linked
- **Colour:** alternatively clear, self-coloured black, self-coloured white, red, green, blue, yellow
- **Shore hardness A:** 45° ±3° (DIN 53505)
- **Temperature range:** -20 to +65 °C, for a short time +80 °C
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17522	1.6	1/16"	3.2	1/8"	clear	5	19.00
17523	1.6	1/16"	3.2	1/8"	clear	15	47.00
17524	1.6	1/16"	3.2	1/8"	clear	30	74.00
17525	1.6	1/16"	3.2	1/8"	black	5	19.00
17526	1.6	1/16"	3.2	1/8"	black	15	47.00
17527	1.6	1/16"	3.2	1/8"	black	30	74.00
17528	1.6	1/16"	3.2	1/8"	white	5	19.00
17529	1.6	1/16"	3.2	1/8"	white	15	47.00
17530	1.6	1/16"	3.2	1/8"	white	30	74.00
17540	1.6	1/16"	3.2	1/8"	yellow	5	19.00
17541	1.6	1/16"	3.2	1/8"	yellow	15	47.00
17542	1.6	1/16"	3.2	1/8"	yellow	30	74.00
17543	1.6	1/16"	6.4	1/4"	clear	5	40.00
17544	1.6	1/16"	6.4	1/4"	clear	15	99.00
17545	1.6	1/16"	6.4	1/4"	clear	30	153.00
17564	2.4	3/32"	4	5/32"	clear	5	22.00
17565	2.4	3/32"	4	5/32"	clear	15	54.00
17566	2.4	3/32"	4	5/32"	clear	30	86.00
17567	2.4	3/32"	4	5/32"	black	5	22.00
17568	2.4	3/32"	4	5/32"	black	15	54.00
17569	2.4	3/32"	4	5/32"	black	30	86.00
17570	2.4	3/32"	4	5/32"	white	5	22.00
17571	2.4	3/32"	4	5/32"	white	15	54.00
17572	2.4	3/32"	4	5/32"	white	30	86.00
17579	2.4	3/32"	4	5/32"	blue	5	22.00
17580	2.4	3/32"	4	5/32"	blue	15	54.00
17581	2.4	3/32"	4	5/32"	blue	30	86.00
17582	2.4	3/32"	4	5/32"	yellow	5	22.00
17583	2.4	3/32"	4	5/32"	yellow	15	54.00
17584	2.4	3/32"	4	5/32"	yellow	30	86.00
17606	3.2	1/8"	6.4	1/4"	clear	5	34.00
17607	3.2	1/8"	6.4	1/4"	clear	15	83.00
17608	3.2	1/8"	6.4	1/4"	clear	30	129.00
17609	3.2	1/8"	6.4	1/4"	black	5	34.00
17610	3.2	1/8"	6.4	1/4"	black	15	83.00
17611	3.2	1/8"	6.4	1/4"	black	30	129.00
17615	3.2	1/8"	6.4	1/4"	red	5	34.00
17616	3.2	1/8"	6.4	1/4"	red	15	83.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17617	3.2	1/8"	6.4	1/4"	red	30	129.00
17618	3.2	1/8"	6.4	1/4"	green	5	34.00
17619	3.2	1/8"	6.4	1/4"	green	15	83.00
17620	3.2	1/8"	6.4	1/4"	green	30	129.00
17621	3.2	1/8"	6.4	1/4"	blue	5	34.00
17622	3.2	1/8"	6.4	1/4"	blue	15	83.00
17623	3.2	1/8"	6.4	1/4"	blue	30	129.00
17624	3.2	1/8"	6.4	1/4"	yellow	5	34.00
17625	3.2	1/8"	6.4	1/4"	yellow	15	83.00
17626	3.2	1/8"	6.4	1/4"	yellow	30	129.00
17627	4	5/32"	7.2	9/32"	clear	5	37.00
17628	4	5/32"	7.2	9/32"	clear	15	90.00
17629	4	5/32"	7.2	9/32"	clear	30	141.00
17630	4	5/32"	7.2	9/32"	black	5	37.00
17631	4	5/32"	7.2	9/32"	black	15	90.00
17632	4	5/32"	7.2	9/32"	black	30	141.00
17633	4	5/32"	7.2	9/32"	white	5	37.00
17634	4	5/32"	7.2	9/32"	white	15	90.00
17636	4	5/32"	7.2	9/32"	red	5	37.00
17637	4	5/32"	7.2	9/32"	red	15	90.00
17639	4	5/32"	7.2	9/32"	green	5	37.00
17640	4	5/32"	7.2	9/32"	green	15	90.00
17642	4	5/32"	7.2	9/32"	blue	5	37.00
17643	4	5/32"	7.2	9/32"	blue	15	90.00
17644	4	5/32"	7.2	9/32"	blue	30	141.00
17645	4	5/32"	7.2	9/32"	yellow	5	37.00
17646	4	5/32"	7.2	9/32"	yellow	15	90.00
17647	4	5/32"	7.2	9/32"	yellow	30	141.00
17669	4.4	11/64"	6.4	1/4"	clear	5	35.00
17670	4.4	11/64"	6.4	1/4"	clear	15	85.00
17671	4.4	11/64"	6.4	1/4"	clear	30	135.00
17675	4.4	11/64"	6.4	1/4"	white	5	35.00
17676	4.4	11/64"	6.4	1/4"	white	15	85.00
17677	4.4	11/64"	6.4	1/4"	white	30	135.00
17684	4.4	11/64"	6.4	1/4"	blue	5	35.00
17685	4.4	11/64"	6.4	1/4"	blue	15	85.00
17686	4.4	11/64"	6.4	1/4"	blue	30	135.00
17690	4.8	3/16"	6.4	1/4"	clear	5	36.00
17691	4.8	3/16"	6.4	1/4"	clear	15	89.00
17692	4.8	3/16"	6.4	1/4"	clear	30	143.00
17711	4.8	3/16"	7.9	5/16"	clear	5	37.00
17712	4.8	3/16"	7.9	5/16"	clear	15	94.00
17713	4.8	3/16"	7.9	5/16"	clear	30	148.00
17714	4.8	3/16"	7.9	5/16"	black	5	37.00
17715	4.8	3/16"	7.9	5/16"	black	15	94.00
17716	4.8	3/16"	7.9	5/16"	black	30	148.00
17774	6.4	1/4"	9.5	3/8"	clear	5	49.00
17775	6.4	1/4"	9.5	3/8"	clear	15	115.00
17776	6.4	1/4"	9.5	3/8"	clear	30	186.00
17777	6.4	1/4"	9.5	3/8"	black	5	49.00
17778	6.4	1/4"	9.5	3/8"	black	15	115.00
17779	6.4	1/4"	9.5	3/8"	black	30	186.00
17788	6.4	1/4"	9.5	3/8"	blue	5	49.00
17789	6.4	1/4"	9.5	3/8"	blue	15	115.00
17790	6.4	1/4"	9.5	3/8"	blue	30	186.00

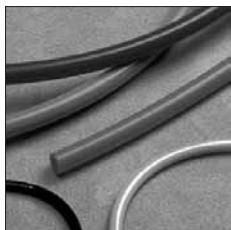
## THOMAFLUID®-High-Tech-PVC Colour Chemical Tubing - imperial, shore 68

### Product specification

- Very high flexibility.
- Good mechanical stability.
- Non-toxic, pyrogen-free.
- Good resistance to aging and weather.
- Very good dielectric properties.
- Hardly inflammable.
- Antiadhesive surface.
- Resistant to most dilute and concentrated acids (e.g. hydrochloric acid, dilute nitric acid, dilute chromic acid) as well as aqueous salt solutions.
- Resistant to mineral and vegetable oils, paraffin oil, alcohol, gasoline, aliphatic hydrocarbons (e.g. pentane, octane), and long-chain fatty acids.

### Technical specification

- **Material:** PVC (polyvinyl chloride) - highly cross-linked
- **Colour:** alternatively clear, self-coloured black, self-coloured white, red, green, blue, yellow.
- **Shore hardness A:** 68° ±3° (DIN 53505)
- **Temperature range:** -20 to +65 °C, for a short time +80 °C
- **Tolerance:** DIN ISO 3302-1 E2



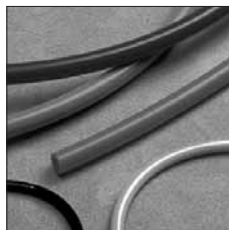
Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
16721	1.6	1/16"	3.2	1/8"	clear	5	19.00
16722	1.6	1/16"	3.2	1/8"	clear	15	48.00
16723	1.6	1/16"	3.2	1/8"	clear	30	74.00
16724	1.6	1/16"	3.2	1/8"	black	5	19.00
16725	1.6	1/16"	3.2	1/8"	black	15	48.00
16726	1.6	1/16"	3.2	1/8"	black	30	74.00
16727	1.6	1/16"	3.2	1/8"	white	5	19.00
16728	1.6	1/16"	3.2	1/8"	white	15	48.00
16729	1.6	1/16"	3.2	1/8"	white	30	74.00
16730	1.6	1/16"	3.2	1/8"	red	5	19.00
16731	1.6	1/16"	3.2	1/8"	red	15	48.00
16732	1.6	1/16"	3.2	1/8"	red	30	74.00
16733	1.6	1/16"	3.2	1/8"	green	5	19.00
16734	1.6	1/16"	3.2	1/8"	green	15	48.00
16735	1.6	1/16"	3.2	1/8"	green	30	74.00
16736	1.6	1/16"	3.2	1/8"	blue	5	19.00
16737	1.6	1/16"	3.2	1/8"	blue	15	48.00
16738	1.6	1/16"	3.2	1/8"	blue	30	74.00
16739	1.6	1/16"	3.2	1/8"	yellow	5	19.00
16740	1.6	1/16"	3.2	1/8"	yellow	15	48.00
16741	1.6	1/16"	3.2	1/8"	yellow	30	74.00
16742	1.6	1/16"	6.4	1/4"	clear	5	48.00
16743	1.6	1/16"	6.4	1/4"	clear	15	116.00
16744	1.6	1/16"	6.4	1/4"	clear	30	186.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
16745	1.6	1/16"	6.4	1/4"	black	5	48.00
16746	1.6	1/16"	6.4	1/4"	black	15	116.00
16747	1.6	1/16"	6.4	1/4"	black	30	186.00
16748	1.6	1/16"	6.4	1/4"	white	5	48.00
16749	1.6	1/16"	6.4	1/4"	white	15	116.00
16750	1.6	1/16"	6.4	1/4"	white	30	186.00
16751	1.6	1/16"	6.4	1/4"	red	5	48.00
16752	1.6	1/16"	6.4	1/4"	red	15	116.00
16753	1.6	1/16"	6.4	1/4"	red	30	186.00
16754	1.6	1/16"	6.4	1/4"	green	5	48.00
16755	1.6	1/16"	6.4	1/4"	green	15	116.00
16756	1.6	1/16"	6.4	1/4"	green	30	186.00
16757	1.6	1/16"	6.4	1/4"	blue	5	48.00
16758	1.6	1/16"	6.4	1/4"	blue	15	116.00
16759	1.6	1/16"	6.4	1/4"	blue	30	186.00
16760	1.6	1/16"	6.4	1/4"	yellow	5	48.00
16761	1.6	1/16"	6.4	1/4"	yellow	15	116.00
16762	1.6	1/16"	6.4	1/4"	yellow	30	186.00
16763	2.4	3/32"	4	5/32"	clear	5	25.00
16764	2.4	3/32"	4	5/32"	clear	15	63.00
16765	2.4	3/32"	4	5/32"	clear	30	100.00
16766	2.4	3/32"	4	5/32"	black	5	25.00
16767	2.4	3/32"	4	5/32"	black	15	63.00
16768	2.4	3/32"	4	5/32"	black	30	100.00
16769	2.4	3/32"	4	5/32"	white	5	25.00
16770	2.4	3/32"	4	5/32"	white	15	63.00
16771	2.4	3/32"	4	5/32"	white	30	100.00
16772	2.4	3/32"	4	5/32"	red	5	25.00
16773	2.4	3/32"	4	5/32"	red	15	63.00
16774	2.4	3/32"	4	5/32"	red	30	100.00
16775	2.4	3/32"	4	5/32"	green	5	25.00
16776	2.4	3/32"	4	5/32"	green	15	63.00
16777	2.4	3/32"	4	5/32"	green	30	100.00
16778	2.4	3/32"	4	5/32"	blue	5	25.00
16779	2.4	3/32"	4	5/32"	blue	15	63.00
16780	2.4	3/32"	4	5/32"	blue	30	100.00
16781	2.4	3/32"	4	5/32"	yellow	5	25.00
16782	2.4	3/32"	4	5/32"	yellow	15	63.00
16783	2.4	3/32"	4	5/32"	yellow	30	100.00
16784	3.2	1/8"	4.8	3/16"	clear	5	29.00
16785	3.2	1/8"	4.8	3/16"	clear	15	68.00
16786	3.2	1/8"	4.8	3/16"	clear	30	107.00
16787	3.2	1/8"	4.8	3/16"	black	5	29.00
16788	3.2	1/8"	4.8	3/16"	black	15	68.00
16789	3.2	1/8"	4.8	3/16"	black	30	107.00
16790	3.2	1/8"	4.8	3/16"	white	5	29.00
16791	3.2	1/8"	4.8	3/16"	white	15	68.00
16792	3.2	1/8"	4.8	3/16"	white	30	107.00
16793	3.2	1/8"	4.8	3/16"	red	5	29.00
16794	3.2	1/8"	4.8	3/16"	red	15	68.00
16795	3.2	1/8"	4.8	3/16"	red	30	107.00
16796	3.2	1/8"	4.8	3/16"	green	5	29.00
16797	3.2	1/8"	4.8	3/16"	green	15	68.00
16798	3.2	1/8"	4.8	3/16"	green	30	107.00
16799	3.2	1/8"	4.8	3/16"	blue	5	29.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
16800	3.2	1/8"	4.8	3/16"	blue	15	68.00
16801	3.2	1/8"	4.8	3/16"	blue	30	107.00
16802	3.2	1/8"	4.8	3/16"	yellow	5	29.00
16803	3.2	1/8"	4.8	3/16"	yellow	15	68.00
16804	3.2	1/8"	4.8	3/16"	yellow	30	107.00
16805	3.2	1/8"	6.4	1/4"	clear	5	35.00
16806	3.2	1/8"	6.4	1/4"	clear	15	86.00
16807	3.2	1/8"	6.4	1/4"	clear	30	138.00
16808	3.2	1/8"	6.4	1/4"	black	5	35.00
16809	3.2	1/8"	6.4	1/4"	black	15	86.00
16810	3.2	1/8"	6.4	1/4"	black	30	138.00
16811	3.2	1/8"	6.4	1/4"	white	5	35.00
16812	3.2	1/8"	6.4	1/4"	white	15	86.00
16813	3.2	1/8"	6.4	1/4"	white	30	138.00
16814	3.2	1/8"	6.4	1/4"	red	5	35.00
16815	3.2	1/8"	6.4	1/4"	red	15	86.00
16816	3.2	1/8"	6.4	1/4"	red	30	138.00
16817	3.2	1/8"	6.4	1/4"	green	5	35.00
16818	3.2	1/8"	6.4	1/4"	green	15	86.00
16819	3.2	1/8"	6.4	1/4"	green	30	138.00
16820	3.2	1/8"	6.4	1/4"	blue	5	35.00
16821	3.2	1/8"	6.4	1/4"	blue	15	86.00
16822	3.2	1/8"	6.4	1/4"	blue	30	138.00
16823	3.2	1/8"	6.4	1/4"	yellow	5	35.00
16824	3.2	1/8"	6.4	1/4"	yellow	15	86.00
16825	3.2	1/8"	6.4	1/4"	yellow	30	138.00
16826	4	5/32"	7.2	9/32"	clear	5	40.00
16827	4	5/32"	7.2	9/32"	clear	15	101.00
16828	4	5/32"	7.2	9/32"	clear	30	160.00
16829	4	5/32"	7.2	9/32"	black	5	40.00
16830	4	5/32"	7.2	9/32"	black	15	101.00
16831	4	5/32"	7.2	9/32"	black	30	160.00
16832	4	5/32"	7.2	9/32"	white	5	40.00
16833	4	5/32"	7.2	9/32"	white	15	101.00
16834	4	5/32"	7.2	9/32"	white	30	160.00
16835	4	5/32"	7.2	9/32"	red	5	40.00
16836	4	5/32"	7.2	9/32"	red	15	101.00
16837	4	5/32"	7.2	9/32"	red	30	160.00
16838	4	5/32"	7.2	9/32"	green	5	40.00
16839	4	5/32"	7.2	9/32"	green	15	101.00
16840	4	5/32"	7.2	9/32"	green	30	160.00
16841	4	5/32"	7.2	9/32"	blue	5	40.00
16842	4	5/32"	7.2	9/32"	blue	15	101.00
16843	4	5/32"	7.2	9/32"	blue	30	160.00
16844	4	5/32"	7.2	9/32"	yellow	5	40.00
16845	4	5/32"	7.2	9/32"	yellow	15	101.00
16846	4	5/32"	7.2	9/32"	yellow	30	160.00
16847	4	5/32"	8.7	11/32"	clear	5	58.00
16848	4	5/32"	8.7	11/32"	clear	15	140.00
16849	4	5/32"	8.7	11/32"	clear	30	216.00
16850	4	5/32"	8.7	11/32"	black	5	58.00
16851	4	5/32"	8.7	11/32"	black	15	140.00
16852	4	5/32"	8.7	11/32"	black	30	216.00
16853	4	5/32"	8.7	11/32"	white	5	58.00
16854	4	5/32"	8.7	11/32"	white	15	140.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
16855	4	5/32"	8.7	11/32"	white	30	216.00
16856	4	5/32"	8.7	11/32"	red	5	58.00
16857	4	5/32"	8.7	11/32"	red	15	140.00
16858	4	5/32"	8.7	11/32"	red	30	216.00
16859	4	5/32"	8.7	11/32"	green	5	58.00
16860	4	5/32"	8.7	11/32"	green	15	140.00
16861	4	5/32"	8.7	11/32"	green	30	216.00
16862	4	5/32"	8.7	11/32"	blue	5	58.00
16863	4	5/32"	8.7	11/32"	blue	15	140.00
16864	4	5/32"	8.7	11/32"	blue	30	216.00
16865	4	5/32"	8.7	11/32"	yellow	5	58.00
16866	4	5/32"	8.7	11/32"	yellow	15	140.00
16867	4	5/32"	8.7	11/32"	yellow	30	216.00
16868	4.4	11/64"	6.4	1/4"	clear	5	29.00
16869	4.4	11/64"	6.4	1/4"	clear	15	73.00
16870	4.4	11/64"	6.4	1/4"	clear	30	115.00
16871	4.4	11/64"	6.4	1/4"	black	5	29.00
16872	4.4	11/64"	6.4	1/4"	black	15	73.00
16873	4.4	11/64"	6.4	1/4"	black	30	115.00
16874	4.4	11/64"	6.4	1/4"	white	5	29.00
16875	4.4	11/64"	6.4	1/4"	white	15	73.00
16876	4.4	11/64"	6.4	1/4"	white	30	115.00
16877	4.4	11/64"	6.4	1/4"	red	5	29.00
16878	4.4	11/64"	6.4	1/4"	red	15	73.00
16879	4.4	11/64"	6.4	1/4"	red	30	115.00
16880	4.4	11/64"	6.4	1/4"	green	5	29.00
16881	4.4	11/64"	6.4	1/4"	green	15	73.00
16882	4.4	11/64"	6.4	1/4"	green	30	115.00
16883	4.4	11/64"	6.4	1/4"	blue	5	29.00
16884	4.4	11/64"	6.4	1/4"	blue	15	73.00
16885	4.4	11/64"	6.4	1/4"	blue	30	115.00
16886	4.4	11/64"	6.4	1/4"	yellow	5	29.00
16887	4.4	11/64"	6.4	1/4"	yellow	15	73.00
16888	4.4	11/64"	6.4	1/4"	yellow	30	115.00
16889	4.8	3/16"	6.4	1/4"	clear	5	30.00
16890	4.8	3/16"	6.4	1/4"	clear	15	75.00
16891	4.8	3/16"	6.4	1/4"	clear	30	119.00
16892	4.8	3/16"	6.4	1/4"	black	5	30.00
16893	4.8	3/16"	6.4	1/4"	black	15	75.00
16894	4.8	3/16"	6.4	1/4"	black	30	119.00
16895	4.8	3/16"	6.4	1/4"	white	5	30.00
16896	4.8	3/16"	6.4	1/4"	white	15	75.00
16897	4.8	3/16"	6.4	1/4"	white	30	119.00
16898	4.8	3/16"	6.4	1/4"	red	5	30.00
16899	4.8	3/16"	6.4	1/4"	red	15	75.00
16900	4.8	3/16"	6.4	1/4"	red	30	119.00
16901	4.8	3/16"	6.4	1/4"	green	5	30.00
16902	4.8	3/16"	6.4	1/4"	green	15	75.00
16903	4.8	3/16"	6.4	1/4"	green	30	119.00
16904	4.8	3/16"	6.4	1/4"	blue	5	30.00
16905	4.8	3/16"	6.4	1/4"	blue	15	75.00
16906	4.8	3/16"	6.4	1/4"	blue	30	119.00
16907	4.8	3/16"	6.4	1/4"	yellow	5	30.00
16908	4.8	3/16"	6.4	1/4"	yellow	15	75.00
16909	4.8	3/16"	6.4	1/4"	yellow	30	119.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit	Price EURO
16910	4.8	3/16"	7.9	5/16"	clear	5	37.00
16911	4.8	3/16"	7.9	5/16"	clear	15	94.00
16912	4.8	3/16"	7.9	5/16"	clear	30	148.00
16913	4.8	3/16"	7.9	5/16"	black	5	37.00
16914	4.8	3/16"	7.9	5/16"	black	15	94.00
16915	4.8	3/16"	7.9	5/16"	black	30	148.00
16916	4.8	3/16"	7.9	5/16"	white	5	37.00
16917	4.8	3/16"	7.9	5/16"	white	15	94.00
16918	4.8	3/16"	7.9	5/16"	white	30	148.00
16919	4.8	3/16"	7.9	5/16"	red	5	37.00
16920	4.8	3/16"	7.9	5/16"	red	15	94.00
16921	4.8	3/16"	7.9	5/16"	red	30	148.00
16922	4.8	3/16"	7.9	5/16"	green	5	37.00
16923	4.8	3/16"	7.9	5/16"	green	15	94.00
16924	4.8	3/16"	7.9	5/16"	green	30	148.00
16925	4.8	3/16"	7.9	5/16"	blue	5	37.00
16926	4.8	3/16"	7.9	5/16"	blue	15	94.00



16927	4.8	3/16"	7.9	5/16"	blue	30	148.00
16928	4.8	3/16"	7.9	5/16"	yellow	5	37.00
16929	4.8	3/16"	7.9	5/16"	yellow	15	94.00
16930	4.8	3/16"	7.9	5/16"	yellow	30	148.00
16931	4.8	3/16"	11.1	7/16"	clear	5	79.00
16932	4.8	3/16"	11.1	7/16"	clear	15	194.00
16933	4.8	3/16"	11.1	7/16"	clear	30	301.00
16934	4.8	3/16"	11.1	7/16"	black	5	79.00
16935	4.8	3/16"	11.1	7/16"	black	15	194.00
16936	4.8	3/16"	11.1	7/16"	black	30	301.00
16937	4.8	3/16"	11.1	7/16"	white	5	79.00
16938	4.8	3/16"	11.1	7/16"	white	15	194.00
16939	4.8	3/16"	11.1	7/16"	white	30	301.00
16940	4.8	3/16"	11.1	7/16"	red	5	79.00
16941	4.8	3/16"	11.1	7/16"	red	15	194.00
16942	4.8	3/16"	11.1	7/16"	red	30	301.00
16943	4.8	3/16"	11.1	7/16"	green	5	79.00
16944	4.8	3/16"	11.1	7/16"	green	15	194.00
16945	4.8	3/16"	11.1	7/16"	green	30	301.00
16946	4.8	3/16"	11.1	7/16"	blue	5	79.00
16947	4.8	3/16"	11.1	7/16"	blue	15	194.00
16948	4.8	3/16"	11.1	7/16"	blue	30	301.00
16949	4.8	3/16"	11.1	7/16"	yellow	5	79.00
16950	4.8	3/16"	11.1	7/16"	yellow	15	194.00
16951	4.8	3/16"	11.1	7/16"	yellow	30	301.00
16952	4.8	3/16"	9.5	3/8"	clear	5	57.00
16953	4.8	3/16"	9.5	3/8"	clear	15	139.00
16954	4.8	3/16"	9.5	3/8"	clear	30	215.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit	Price EURO
16955	4.8	3/16"	9.5	3/8"	black	5	57.00
16956	4.8	3/16"	9.5	3/8"	black	15	139.00
16957	4.8	3/16"	9.5	3/8"	black	30	215.00
16958	4.8	3/16"	9.5	3/8"	white	5	57.00
16959	4.8	3/16"	9.5	3/8"	white	15	139.00
16960	4.8	3/16"	9.5	3/8"	white	30	215.00
16961	4.8	3/16"	9.5	3/8"	red	5	57.00
16962	4.8	3/16"	9.5	3/8"	red	15	139.00
16963	4.8	3/16"	9.5	3/8"	red	30	215.00
16964	4.8	3/16"	9.5	3/8"	green	5	57.00
16965	4.8	3/16"	9.5	3/8"	green	15	139.00
16966	4.8	3/16"	9.5	3/8"	green	30	215.00
16967	4.8	3/16"	9.5	3/8"	blue	5	57.00
16968	4.8	3/16"	9.5	3/8"	blue	15	139.00
16969	4.8	3/16"	9.5	3/8"	blue	30	215.00
16970	4.8	3/16"	9.5	3/8"	yellow	5	57.00
16971	4.8	3/16"	9.5	3/8"	yellow	15	139.00
16972	4.8	3/16"	9.5	3/8"	yellow	30	215.00
16973	6.4	1/4"	9.5	3/8"	clear	5	48.00
16974	6.4	1/4"	9.5	3/8"	clear	15	117.00
16975	6.4	1/4"	9.5	3/8"	clear	30	187.00
16976	6.4	1/4"	9.5	3/8"	black	5	48.00
16977	6.4	1/4"	9.5	3/8"	black	15	117.00
16978	6.4	1/4"	9.5	3/8"	black	30	187.00
16979	6.4	1/4"	9.5	3/8"	white	5	48.00
16980	6.4	1/4"	9.5	3/8"	white	15	117.00
16981	6.4	1/4"	9.5	3/8"	white	30	187.00
16982	6.4	1/4"	9.5	3/8"	red	5	48.00
16983	6.4	1/4"	9.5	3/8"	red	15	117.00
16984	6.4	1/4"	9.5	3/8"	red	30	187.00
16985	6.4	1/4"	9.5	3/8"	green	5	48.00
16986	6.4	1/4"	9.5	3/8"	green	15	117.00
16987	6.4	1/4"	9.5	3/8"	green	30	187.00
16988	6.4	1/4"	9.5	3/8"	blue	5	48.00
16989	6.4	1/4"	9.5	3/8"	blue	15	117.00
16990	6.4	1/4"	9.5	3/8"	blue	30	187.00
16991	6.4	1/4"	9.5	3/8"	yellow	5	48.00
16992	6.4	1/4"	9.5	3/8"	yellow	15	117.00
16993	6.4	1/4"	9.5	3/8"	yellow	30	187.00
16994	6.4	1/4"	11.1	7/16"	clear	5	66.00
16995	6.4	1/4"	11.1	7/16"	clear	15	160.00
16996	6.4	1/4"	11.1	7/16"	clear	30	247.00
16997	6.4	1/4"	11.1	7/16"	black	5	66.00
16998	6.4	1/4"	11.1	7/16"	black	15	160.00
16999	6.4	1/4"	11.1	7/16"	black	30	247.00
17000	6.4	1/4"	11.1	7/16"	white	5	66.00
17001	6.4	1/4"	11.1	7/16"	white	15	160.00
17002	6.4	1/4"	11.1	7/16"	white	30	247.00
17003	6.4	1/4"	11.1	7/16"	red	5	66.00
17004	6.4	1/4"	11.1	7/16"	red	15	160.00
17005	6.4	1/4"	11.1	7/16"	red	30	247.00
17006	6.4	1/4"	11.1	7/16"	green	5	66.00
17007	6.4	1/4"	11.1	7/16"	green	15	160.00
17008	6.4	1/4"	11.1	7/16"	green	30	247.00
17009	6.4	1/4"	11.1	7/16"	blue	5	66.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO	Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17010	6.4	1/4"	11.1	7/16"	blue	15	160.00	17065	9.5	3/8"	12.7	1/2"	white	30	237.00
17011	6.4	1/4"	11.1	7/16"	blue	30	247.00	17066	9.5	3/8"	12.7	1/2"	red	5	63.00
17012	6.4	1/4"	11.1	7/16"	yellow	5	66.00	17067	9.5	3/8"	12.7	1/2"	red	15	153.00
17013	6.4	1/4"	11.1	7/16"	yellow	15	160.00	17068	9.5	3/8"	12.7	1/2"	red	30	237.00
17014	6.4	1/4"	11.1	7/16"	yellow	30	247.00	17069	9.5	3/8"	12.7	1/2"	green	5	63.00
17015	7.9	5/16"	11.1	7/16"	clear	5	53.00	17070	9.5	3/8"	12.7	1/2"	green	15	153.00
17016	7.9	5/16"	11.1	7/16"	clear	15	127.00	17071	9.5	3/8"	12.7	1/2"	green	30	237.00
17017	7.9	5/16"	11.1	7/16"	clear	30	198.00	17072	9.5	3/8"	12.7	1/2"	blue	5	63.00
17018	7.9	5/16"	11.1	7/16"	black	5	53.00	17073	9.5	3/8"	12.7	1/2"	blue	15	153.00
17019	7.9	5/16"	11.1	7/16"	black	15	127.00	17074	9.5	3/8"	12.7	1/2"	blue	30	237.00
17020	7.9	5/16"	11.1	7/16"	black	30	198.00	17075	9.5	3/8"	12.7	1/2"	yellow	5	63.00
17021	7.9	5/16"	11.1	7/16"	white	5	53.00	17076	9.5	3/8"	12.7	1/2"	yellow	15	153.00
17022	7.9	5/16"	11.1	7/16"	white	15	127.00	17077	9.5	3/8"	12.7	1/2"	yellow	30	237.00
17023	7.9	5/16"	11.1	7/16"	white	30	198.00	17078	11.1	7/16"	14.3	9/16"	clear	5	68.00
17024	7.9	5/16"	11.1	7/16"	red	5	53.00	17079	11.1	7/16"	14.3	9/16"	clear	15	166.00
17025	7.9	5/16"	11.1	7/16"	red	15	127.00	17080	11.1	7/16"	14.3	9/16"	clear	30	258.00
17026	7.9	5/16"	11.1	7/16"	red	30	198.00	17081	11.1	7/16"	14.3	9/16"	black	5	68.00
17027	7.9	5/16"	11.1	7/16"	green	5	53.00	17082	11.1	7/16"	14.3	9/16"	black	15	166.00
17028	7.9	5/16"	11.1	7/16"	green	15	127.00	17083	11.1	7/16"	14.3	9/16"	black	30	258.00
17029	7.9	5/16"	11.1	7/16"	green	30	198.00	17084	11.1	7/16"	14.3	9/16"	white	5	68.00
17030	7.9	5/16"	11.1	7/16"	blue	5	53.00	17085	11.1	7/16"	14.3	9/16"	white	15	166.00
17031	7.9	5/16"	11.1	7/16"	blue	15	127.00	17086	11.1	7/16"	14.3	9/16"	white	30	258.00
17032	7.9	5/16"	11.1	7/16"	blue	30	198.00	17087	11.1	7/16"	14.3	9/16"	red	5	68.00
17033	7.9	5/16"	11.1	7/16"	yellow	5	53.00	17088	11.1	7/16"	14.3	9/16"	red	15	166.00
17034	7.9	5/16"	11.1	7/16"	yellow	15	127.00	17089	11.1	7/16"	14.3	9/16"	red	30	258.00
17035	7.9	5/16"	11.1	7/16"	yellow	30	198.00	17090	11.1	7/16"	14.3	9/16"	green	5	68.00
17036	7.9	5/16"	12.7	1/2"	clear	5	78.00	17091	11.1	7/16"	14.3	9/16"	green	15	166.00
17037	7.9	5/16"	12.7	1/2"	clear	15	188.00	17092	11.1	7/16"	14.3	9/16"	green	30	258.00
17038	7.9	5/16"	12.7	1/2"	clear	30	293.00	17093	11.1	7/16"	14.3	9/16"	blue	5	68.00
17039	7.9	5/16"	12.7	1/2"	black	5	78.00	17094	11.1	7/16"	14.3	9/16"	blue	15	166.00
17040	7.9	5/16"	12.7	1/2"	black	15	188.00	17095	11.1	7/16"	14.3	9/16"	blue	30	258.00
17041	7.9	5/16"	12.7	1/2"	black	30	293.00	17096	11.1	7/16"	14.3	9/16"	yellow	5	68.00
17042	7.9	5/16"	12.7	1/2"	white	5	78.00	17097	11.1	7/16"	14.3	9/16"	yellow	15	166.00
17043	7.9	5/16"	12.7	1/2"	white	15	188.00	17098	11.1	7/16"	14.3	9/16"	yellow	30	258.00
17044	7.9	5/16"	12.7	1/2"	white	30	293.00	17099	12.7	1/2"	15.9	5/8"	clear	5	78.00
17045	7.9	5/16"	12.7	1/2"	red	5	78.00	17100	12.7	1/2"	15.9	5/8"	clear	15	191.00
17046	7.9	5/16"	12.7	1/2"	red	15	188.00	17101	12.7	1/2"	15.9	5/8"	clear	30	296.00
17047	7.9	5/16"	12.7	1/2"	red	30	293.00	17102	12.7	1/2"	15.9	5/8"	black	5	78.00
17048	7.9	5/16"	12.7	1/2"	green	5	78.00	17103	12.7	1/2"	15.9	5/8"	black	15	191.00
17049	7.9	5/16"	12.7	1/2"	green	15	188.00	17104	12.7	1/2"	15.9	5/8"	black	30	296.00
17050	7.9	5/16"	12.7	1/2"	green	30	293.00	17105	12.7	1/2"	15.9	5/8"	white	5	78.00
17051	7.9	5/16"	12.7	1/2"	blue	5	78.00	17106	12.7	1/2"	15.9	5/8"	white	15	191.00
17052	7.9	5/16"	12.7	1/2"	blue	15	188.00	17107	12.7	1/2"	15.9	5/8"	white	30	296.00
17053	7.9	5/16"	12.7	1/2"	blue	30	293.00	17108	12.7	1/2"	15.9	5/8"	red	5	78.00
17054	7.9	5/16"	12.7	1/2"	yellow	5	78.00	17109	12.7	1/2"	15.9	5/8"	red	15	191.00
17055	7.9	5/16"	12.7	1/2"	yellow	15	188.00	17110	12.7	1/2"	15.9	5/8"	red	30	296.00
17056	7.9	5/16"	12.7	1/2"	yellow	30	293.00	17111	12.7	1/2"	15.9	5/8"	green	5	78.00
17057	9.5	3/8"	12.7	1/2"	clear	5	63.00	17112	12.7	1/2"	15.9	5/8"	green	15	191.00
17058	9.5	3/8"	12.7	1/2"	clear	15	153.00	17113	12.7	1/2"	15.9	5/8"	green	30	296.00
17059	9.5	3/8"	12.7	1/2"	clear	30	237.00	17114	12.7	1/2"	15.9	5/8"	blue	5	78.00
17060	9.5	3/8"	12.7	1/2"	black	5	63.00	17115	12.7	1/2"	15.9	5/8"	blue	15	191.00
17061	9.5	3/8"	12.7	1/2"	black	15	153.00	17116	12.7	1/2"	15.9	5/8"	blue	30	296.00
17062	9.5	3/8"	12.7	1/2"	black	30	237.00	17117	12.7	1/2"	15.9	5/8"	yellow	5	78.00
17063	9.5	3/8"	12.7	1/2"	white	5	63.00	17118	12.7	1/2"	15.9	5/8"	yellow	15	191.00
17064	9.5	3/8"	12.7	1/2"	white	15	153.00	17119	12.7	1/2"	15.9	5/8"	yellow	30	296.00

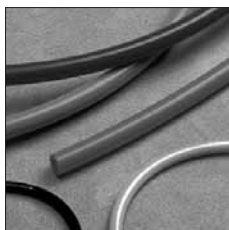
## THOMAFLUID®-High-Tech-PVC Colour Chemical Tubing - imperial, shore 90

### Product specification

- Semi-rigid flexibility.
- Good mechanical stability.
- Non-toxic, pyrogen-free.
- Good resistance to aging and weather.
- Very good dielectric properties.
- Hardly inflammable.
- Antiadhesive surface.
- Resistant to most dilute and concentrated acids (e.g. hydrochloric acid, dilute nitric acid, dilute chromic acid) as well as aqueous salt solutions.
- Resistant to mineral and vegetable oils, paraffin oil, alcohol, gasoline, aliphatic hydrocarbons (e.g. pentane, octane), and long-chain fatty acids.

### Technical specification

- **Material:** PVC (polyvinyl chloride) - highly cross-linked
- **Colour:** alternatively clear, self-coloured black, self-coloured white, red, green, blue, yellow
- **Shore hardness A:** 90° ±3° (DIN 53505)
- **Temperature range:** -20 to +65 °C, for a short time +80 °C
- **Tolerance:** DIN ISO 3302-1 E2

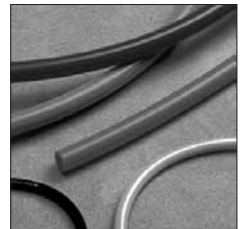


Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17122	1.6	1/16"	3.2	1/8"	clear	5	19.00
17123	1.6	1/16"	3.2	1/8"	clear	15	48.00
17124	1.6	1/16"	3.2	1/8"	clear	30	74.00
17125	1.6	1/16"	3.2	1/8"	black	5	19.00
17126	1.6	1/16"	3.2	1/8"	black	15	48.00
17127	1.6	1/16"	3.2	1/8"	black	30	74.00
17128	1.6	1/16"	3.2	1/8"	white	5	19.00
17129	1.6	1/16"	3.2	1/8"	white	15	48.00
17130	1.6	1/16"	3.2	1/8"	white	30	74.00
17131	1.6	1/16"	3.2	1/8"	red	5	19.00
17132	1.6	1/16"	3.2	1/8"	red	15	48.00
17133	1.6	1/16"	3.2	1/8"	red	30	74.00
17134	1.6	1/16"	3.2	1/8"	green	5	19.00
17135	1.6	1/16"	3.2	1/8"	green	15	48.00
17136	1.6	1/16"	3.2	1/8"	green	30	74.00
17137	1.6	1/16"	3.2	1/8"	blue	5	19.00
17138	1.6	1/16"	3.2	1/8"	blue	15	48.00
17139	1.6	1/16"	3.2	1/8"	blue	30	74.00
17140	1.6	1/16"	3.2	1/8"	yellow	5	19.00
17141	1.6	1/16"	3.2	1/8"	yellow	15	48.00
17142	1.6	1/16"	3.2	1/8"	yellow	30	74.00
17143	1.6	1/16"	6.4	1/4"	clear	5	48.00
17144	1.6	1/16"	6.4	1/4"	clear	15	116.00
17145	1.6	1/16"	6.4	1/4"	clear	30	186.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17146	1.6	1/16"	6.4	1/4"	black	5	48.00
17147	1.6	1/16"	6.4	1/4"	black	15	116.00
17148	1.6	1/16"	6.4	1/4"	black	30	186.00
17149	1.6	1/16"	6.4	1/4"	white	5	48.00
17150	1.6	1/16"	6.4	1/4"	white	15	116.00
17151	1.6	1/16"	6.4	1/4"	white	30	186.00
17152	1.6	1/16"	6.4	1/4"	red	5	48.00
17153	1.6	1/16"	6.4	1/4"	red	15	116.00
17154	1.6	1/16"	6.4	1/4"	red	30	186.00
17155	1.6	1/16"	6.4	1/4"	green	5	48.00
17156	1.6	1/16"	6.4	1/4"	green	15	116.00
17157	1.6	1/16"	6.4	1/4"	green	30	186.00
17158	1.6	1/16"	6.4	1/4"	blue	5	48.00
17159	1.6	1/16"	6.4	1/4"	blue	15	116.00
17160	1.6	1/16"	6.4	1/4"	blue	30	186.00
17161	1.6	1/16"	6.4	1/4"	yellow	5	48.00
17162	1.6	1/16"	6.4	1/4"	yellow	15	116.00
17163	1.6	1/16"	6.4	1/4"	yellow	30	186.00
17164	2.4	3/32"	4	5/32"	clear	5	25.00
17165	2.4	3/32"	4	5/32"	clear	15	63.00
17166	2.4	3/32"	4	5/32"	clear	30	100.00
17167	2.4	3/32"	4	5/32"	black	5	25.00
17168	2.4	3/32"	4	5/32"	black	15	63.00
17169	2.4	3/32"	4	5/32"	black	30	100.00
17170	2.4	3/32"	4	5/32"	white	5	25.00
17171	2.4	3/32"	4	5/32"	white	15	63.00
17172	2.4	3/32"	4	5/32"	white	30	100.00
17173	2.4	3/32"	4	5/32"	red	5	25.00
17174	2.4	3/32"	4	5/32"	red	15	63.00
17175	2.4	3/32"	4	5/32"	red	30	100.00
17176	2.4	3/32"	4	5/32"	green	5	25.00
17177	2.4	3/32"	4	5/32"	green	15	63.00
17178	2.4	3/32"	4	5/32"	green	30	100.00
17179	2.4	3/32"	4	5/32"	blue	5	25.00
17180	2.4	3/32"	4	5/32"	blue	15	63.00
17181	2.4	3/32"	4	5/32"	blue	30	100.00
17182	2.4	3/32"	4	5/32"	yellow	5	25.00
17183	2.4	3/32"	4	5/32"	yellow	15	63.00
17184	2.4	3/32"	4	5/32"	yellow	30	100.00
17185	3.2	1/8"	4.8	3/16"	clear	5	29.00
17186	3.2	1/8"	4.8	3/16"	clear	15	68.00
17187	3.2	1/8"	4.8	3/16"	clear	30	107.00
17188	3.2	1/8"	4.8	3/16"	black	5	29.00
17189	3.2	1/8"	4.8	3/16"	black	15	68.00
17190	3.2	1/8"	4.8	3/16"	black	30	107.00
17191	3.2	1/8"	4.8	3/16"	white	5	29.00
17192	3.2	1/8"	4.8	3/16"	white	15	68.00
17193	3.2	1/8"	4.8	3/16"	white	30	107.00
17194	3.2	1/8"	4.8	3/16"	red	5	29.00
17195	3.2	1/8"	4.8	3/16"	red	15	68.00
17196	3.2	1/8"	4.8	3/16"	red	30	107.00
17197	3.2	1/8"	4.8	3/16"	green	5	29.00
17198	3.2	1/8"	4.8	3/16"	green	15	68.00
17199	3.2	1/8"	4.8	3/16"	green	30	107.00
17200	3.2	1/8"	4.8	3/16"	blue	5	29.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17201	3.2	1/8"	4.8	3/16"	blue	15	68.00
17202	3.2	1/8"	4.8	3/16"	blue	30	107.00
17203	3.2	1/8"	4.8	3/16"	yellow	5	29.00
17204	3.2	1/8"	4.8	3/16"	yellow	15	68.00
17205	3.2	1/8"	4.8	3/16"	yellow	30	107.00
17206	3.2	1/8"	6.4	1/4"	clear	5	35.00
17207	3.2	1/8"	6.4	1/4"	clear	15	86.00
17208	3.2	1/8"	6.4	1/4"	clear	30	138.00
17209	3.2	1/8"	6.4	1/4"	black	5	35.00
17210	3.2	1/8"	6.4	1/4"	black	15	86.00
17211	3.2	1/8"	6.4	1/4"	black	30	138.00
17212	3.2	1/8"	6.4	1/4"	white	5	35.00
17213	3.2	1/8"	6.4	1/4"	white	15	86.00
17214	3.2	1/8"	6.4	1/4"	white	30	138.00
17215	3.2	1/8"	6.4	1/4"	red	5	35.00
17216	3.2	1/8"	6.4	1/4"	red	15	86.00
17217	3.2	1/8"	6.4	1/4"	red	30	138.00
17218	3.2	1/8"	6.4	1/4"	green	5	35.00
17219	3.2	1/8"	6.4	1/4"	green	15	86.00
17220	3.2	1/8"	6.4	1/4"	green	30	138.00
17221	3.2	1/8"	6.4	1/4"	blue	5	35.00
17222	3.2	1/8"	6.4	1/4"	blue	15	86.00
17223	3.2	1/8"	6.4	1/4"	blue	30	138.00
17224	3.2	1/8"	6.4	1/4"	yellow	5	35.00
17225	3.2	1/8"	6.4	1/4"	yellow	15	86.00
17226	3.2	1/8"	6.4	1/4"	yellow	30	138.00
17227	4	5/32"	7.2	9/32"	clear	5	40.00
17228	4	5/32"	7.2	9/32"	clear	15	101.00
17229	4	5/32"	7.2	9/32"	clear	30	160.00
17230	4	5/32"	7.2	9/32"	black	5	40.00
17231	4	5/32"	7.2	9/32"	black	15	101.00
17232	4	5/32"	7.2	9/32"	black	30	160.00
17233	4	5/32"	7.2	9/32"	white	5	40.00
17234	4	5/32"	7.2	9/32"	white	15	101.00
17235	4	5/32"	7.2	9/32"	white	30	160.00
17236	4	5/32"	7.2	9/32"	red	5	40.00
17237	4	5/32"	7.2	9/32"	red	15	101.00
17238	4	5/32"	7.2	9/32"	red	30	160.00
17239	4	5/32"	7.2	9/32"	green	5	40.00
17240	4	5/32"	7.2	9/32"	green	15	101.00
17241	4	5/32"	7.2	9/32"	green	30	160.00
17242	4	5/32"	7.2	9/32"	blue	5	40.00
17243	4	5/32"	7.2	9/32"	blue	15	101.00
17244	4	5/32"	7.2	9/32"	blue	30	160.00
17245	4	5/32"	7.2	9/32"	yellow	5	40.00
17246	4	5/32"	7.2	9/32"	yellow	15	101.00
17247	4	5/32"	7.2	9/32"	yellow	30	160.00
17248	4	5/32"	8.7	11/32"	clear	5	58.00
17249	4	5/32"	8.7	11/32"	clear	15	140.00
17250	4	5/32"	8.7	11/32"	clear	30	216.00
17251	4	5/32"	8.7	11/32"	black	5	58.00
17252	4	5/32"	8.7	11/32"	black	15	140.00
17253	4	5/32"	8.7	11/32"	black	30	216.00
17254	4	5/32"	8.7	11/32"	white	5	58.00
17255	4	5/32"	8.7	11/32"	white	15	140.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17256	4	5/32"	8.7	11/32"	white	30	216.00
17257	4	5/32"	8.7	11/32"	red	5	58.00
17258	4	5/32"	8.7	11/32"	red	15	140.00
17259	4	5/32"	8.7	11/32"	red	30	216.00
17260	4	5/32"	8.7	11/32"	green	5	58.00
17261	4	5/32"	8.7	11/32"	green	15	140.00
17262	4	5/32"	8.7	11/32"	green	30	216.00
17263	4	5/32"	8.7	11/32"	blue	5	58.00
17264	4	5/32"	8.7	11/32"	blue	15	140.00
17265	4	5/32"	8.7	11/32"	blue	30	216.00
17266	4	5/32"	8.7	11/32"	yellow	5	58.00
17267	4	5/32"	8.7	11/32"	yellow	15	140.00
17268	4	5/32"	8.7	11/32"	yellow	30	216.00
17269	4.4	11/64"	6.4	1/4"	clear	5	29.00
17270	4.4	11/64"	6.4	1/4"	clear	15	73.00
17271	4.4	11/64"	6.4	1/4"	clear	30	115.00
17272	4.4	11/64"	6.4	1/4"	black	5	29.00
17273	4.4	11/64"	6.4	1/4"	black	15	73.00
17274	4.4	11/64"	6.4	1/4"	black	30	115.00
17275	4.4	11/64"	6.4	1/4"	white	5	29.00
17276	4.4	11/64"	6.4	1/4"	white	15	73.00
17277	4.4	11/64"	6.4	1/4"	white	30	115.00
17278	4.4	11/64"	6.4	1/4"	red	5	29.00
17279	4.4	11/64"	6.4	1/4"	red	15	73.00
17280	4.4	11/64"	6.4	1/4"	red	30	115.00
17281	4.4	11/64"	6.4	1/4"	green	5	29.00



17282	4.4	11/64"	6.4	1/4"	green	15	73.00
17283	4.4	11/64"	6.4	1/4"	green	30	115.00
17284	4.4	11/64"	6.4	1/4"	blue	5	29.00
17285	4.4	11/64"	6.4	1/4"	blue	15	73.00
17286	4.4	11/64"	6.4	1/4"	blue	30	115.00
17287	4.4	11/64"	6.4	1/4"	yellow	5	29.00
17288	4.4	11/64"	6.4	1/4"	yellow	15	73.00
17289	4.4	11/64"	6.4	1/4"	yellow	30	115.00
17290	4.8	3/16"	6.4	1/4"	clear	5	30.00
17291	4.8	3/16"	6.4	1/4"	clear	15	75.00
17292	4.8	3/16"	6.4	1/4"	clear	30	119.00
17293	4.8	3/16"	6.4	1/4"	black	5	30.00
17294	4.8	3/16"	6.4	1/4"	black	15	75.00
17295	4.8	3/16"	6.4	1/4"	black	30	119.00
17296	4.8	3/16"	6.4	1/4"	white	5	30.00
17297	4.8	3/16"	6.4	1/4"	white	15	75.00
17298	4.8	3/16"	6.4	1/4"	white	30	119.00
17299	4.8	3/16"	6.4	1/4"	red	5	30.00
17300	4.8	3/16"	6.4	1/4"	red	15	75.00



Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit	Price EURO
17301	4.8	3/16"	6.4	1/4"	red	30	119.00
17302	4.8	3/16"	6.4	1/4"	green	5	30.00
17303	4.8	3/16"	6.4	1/4"	green	15	75.00
17304	4.8	3/16"	6.4	1/4"	green	30	119.00
17305	4.8	3/16"	6.4	1/4"	blue	5	30.00
17306	4.8	3/16"	6.4	1/4"	blue	15	75.00
17307	4.8	3/16"	6.4	1/4"	blue	30	119.00
17308	4.8	3/16"	6.4	1/4"	yellow	5	30.00
17309	4.8	3/16"	6.4	1/4"	yellow	15	75.00
17310	4.8	3/16"	6.4	1/4"	yellow	30	119.00
17311	4.8	3/16"	7.9	5/16"	clear	5	37.00
17312	4.8	3/16"	7.9	5/16"	clear	15	94.00
17313	4.8	3/16"	7.9	5/16"	clear	30	148.00
17314	4.8	3/16"	7.9	5/16"	black	5	37.00
17315	4.8	3/16"	7.9	5/16"	black	15	94.00
17316	4.8	3/16"	7.9	5/16"	black	30	148.00
17317	4.8	3/16"	7.9	5/16"	white	5	37.00
17318	4.8	3/16"	7.9	5/16"	white	15	94.00
17319	4.8	3/16"	7.9	5/16"	white	30	148.00
17320	4.8	3/16"	7.9	5/16"	red	5	37.00
17321	4.8	3/16"	7.9	5/16"	red	15	94.00
17322	4.8	3/16"	7.9	5/16"	red	30	148.00
17323	4.8	3/16"	7.9	5/16"	green	5	37.00
17324	4.8	3/16"	7.9	5/16"	green	15	94.00
17325	4.8	3/16"	7.9	5/16"	green	30	148.00
17326	4.8	3/16"	7.9	5/16"	blue	5	37.00
17327	4.8	3/16"	7.9	5/16"	blue	15	94.00
17328	4.8	3/16"	7.9	5/16"	blue	30	148.00
17329	4.8	3/16"	7.9	5/16"	yellow	5	37.00
17330	4.8	3/16"	7.9	5/16"	yellow	15	94.00
17331	4.8	3/16"	7.9	5/16"	yellow	30	148.00
17332	4.8	3/16"	11.1	7/16"	clear	5	79.00
17333	4.8	3/16"	11.1	7/16"	clear	15	194.00
17334	4.8	3/16"	11.1	7/16"	clear	30	301.00
17335	4.8	3/16"	11.1	7/16"	black	5	79.00
17336	4.8	3/16"	11.1	7/16"	black	15	194.00
17337	4.8	3/16"	11.1	7/16"	black	30	301.00
17338	4.8	3/16"	11.1	7/16"	white	5	79.00
17339	4.8	3/16"	11.1	7/16"	white	15	194.00
17340	4.8	3/16"	11.1	7/16"	white	30	301.00
17341	4.8	3/16"	11.1	7/16"	red	5	79.00
17342	4.8	3/16"	11.1	7/16"	red	15	194.00
17343	4.8	3/16"	11.1	7/16"	red	30	301.00
17344	4.8	3/16"	11.1	7/16"	green	5	79.00
17345	4.8	3/16"	11.1	7/16"	green	15	194.00
17346	4.8	3/16"	11.1	7/16"	green	30	301.00
17347	4.8	3/16"	11.1	7/16"	blue	5	79.00
17348	4.8	3/16"	11.1	7/16"	blue	15	194.00
17349	4.8	3/16"	11.1	7/16"	blue	30	301.00
17350	4.8	3/16"	11.1	7/16"	yellow	5	79.00
17351	4.8	3/16"	11.1	7/16"	yellow	15	194.00
17352	4.8	3/16"	11.1	7/16"	yellow	30	301.00
17353	4.8	3/16"	9.5	3/8"	clear	5	57.00
17354	4.8	3/16"	9.5	3/8"	clear	15	139.00
17355	4.8	3/16"	9.5	3/8"	clear	30	215.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit	Price EURO
17356	4.8	3/16"	9.5	3/8"	black	5	57.00
17357	4.8	3/16"	9.5	3/8"	black	15	139.00
17358	4.8	3/16"	9.5	3/8"	black	30	215.00
17359	4.8	3/16"	9.5	3/8"	white	5	57.00
17360	4.8	3/16"	9.5	3/8"	white	15	139.00
17361	4.8	3/16"	9.5	3/8"	white	30	215.00
17362	4.8	3/16"	9.5	3/8"	red	5	57.00
17363	4.8	3/16"	9.5	3/8"	red	15	139.00
17364	4.8	3/16"	9.5	3/8"	red	30	215.00
17365	4.8	3/16"	9.5	3/8"	green	5	57.00
17366	4.8	3/16"	9.5	3/8"	green	15	139.00
17367	4.8	3/16"	9.5	3/8"	green	30	215.00
17368	4.8	3/16"	9.5	3/8"	blue	5	57.00
17369	4.8	3/16"	9.5	3/8"	blue	15	139.00
17370	4.8	3/16"	9.5	3/8"	blue	30	215.00
17371	4.8	3/16"	9.5	3/8"	yellow	5	57.00
17372	4.8	3/16"	9.5	3/8"	yellow	15	139.00
17373	4.8	3/16"	9.5	3/8"	yellow	30	215.00
17374	6.4	1/4"	9.5	3/8"	clear	5	48.00
17375	6.4	1/4"	9.5	3/8"	clear	15	117.00
17376	6.4	1/4"	9.5	3/8"	clear	30	187.00
17377	6.4	1/4"	9.5	3/8"	black	5	48.00
17378	6.4	1/4"	9.5	3/8"	black	15	117.00
17379	6.4	1/4"	9.5	3/8"	black	30	187.00
17380	6.4	1/4"	9.5	3/8"	white	5	48.00
17381	6.4	1/4"	9.5	3/8"	white	15	117.00
17382	6.4	1/4"	9.5	3/8"	white	30	187.00
17383	6.4	1/4"	9.5	3/8"	red	5	48.00
17384	6.4	1/4"	9.5	3/8"	red	15	117.00
17385	6.4	1/4"	9.5	3/8"	red	30	187.00
17386	6.4	1/4"	9.5	3/8"	green	5	48.00
17387	6.4	1/4"	9.5	3/8"	green	15	117.00
58379	6.4	1/4"	9.5	3/8"	green	30	187.00
17388	6.4	1/4"	9.5	3/8"	blue	5	48.00
17389	6.4	1/4"	9.5	3/8"	blue	15	117.00
17390	6.4	1/4"	9.5	3/8"	blue	30	187.00
17391	6.4	1/4"	9.5	3/8"	yellow	5	48.00
17392	6.4	1/4"	9.5	3/8"	yellow	15	117.00
17393	6.4	1/4"	9.5	3/8"	yellow	30	187.00
17394	6.4	1/4"	11.1	7/16"	clear	5	66.00
17395	6.4	1/4"	11.1	7/16"	clear	15	160.00
17396	6.4	1/4"	11.1	7/16"	clear	30	247.00
17397	6.4	1/4"	11.1	7/16"	black	5	66.00
17398	6.4	1/4"	11.1	7/16"	black	15	160.00
17399	6.4	1/4"	11.1	7/16"	black	30	247.00
17400	6.4	1/4"	11.1	7/16"	white	5	66.00
17401	6.4	1/4"	11.1	7/16"	white	15	160.00
17402	6.4	1/4"	11.1	7/16"	white	30	247.00
17403	6.4	1/4"	11.1	7/16"	red	5	66.00
17404	6.4	1/4"	11.1	7/16"	red	15	160.00
17405	6.4	1/4"	11.1	7/16"	red	30	247.00
17406	6.4	1/4"	11.1	7/16"	green	5	66.00
17407	6.4	1/4"	11.1	7/16"	green	15	160.00
17408	6.4	1/4"	11.1	7/16"	green	30	247.00
17409	6.4	1/4"	11.1	7/16"	blue	5	66.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17410	6.4	1/4"	11.1	7/16"	blue	15	160.00
17411	6.4	1/4"	11.1	7/16"	blue	30	247.00
17412	6.4	1/4"	11.1	7/16"	yellow	5	66.00
17413	6.4	1/4"	11.1	7/16"	yellow	15	160.00
17414	6.4	1/4"	11.1	7/16"	yellow	30	247.00
17415	7.9	5/16"	11.1	7/16"	clear	5	53.00
17416	7.9	5/16"	11.1	7/16"	clear	15	127.00
17417	7.9	5/16"	11.1	7/16"	clear	30	198.00
17418	7.9	5/16"	11.1	7/16"	black	5	53.00
17419	7.9	5/16"	11.1	7/16"	black	15	127.00
17420	7.9	5/16"	11.1	7/16"	black	30	198.00
17421	7.9	5/16"	11.1	7/16"	white	5	53.00
17422	7.9	5/16"	11.1	7/16"	white	15	127.00
17423	7.9	5/16"	11.1	7/16"	white	30	198.00
17424	7.9	5/16"	11.1	7/16"	red	5	53.00
17425	7.9	5/16"	11.1	7/16"	red	15	127.00
17426	7.9	5/16"	11.1	7/16"	red	30	198.00
17427	7.9	5/16"	11.1	7/16"	green	5	53.00
17428	7.9	5/16"	11.1	7/16"	green	15	127.00
17429	7.9	5/16"	11.1	7/16"	green	30	198.00
17430	7.9	5/16"	11.1	7/16"	blue	5	53.00
17431	7.9	5/16"	11.1	7/16"	blue	15	127.00
17432	7.9	5/16"	11.1	7/16"	blue	30	198.00
17433	7.9	5/16"	11.1	7/16"	yellow	5	53.00
17434	7.9	5/16"	11.1	7/16"	yellow	15	127.00
17435	7.9	5/16"	11.1	7/16"	yellow	30	198.00
17436	7.9	5/16"	12.7	1/2"	clear	5	78.00
17437	7.9	5/16"	12.7	1/2"	clear	15	188.00
17438	7.9	5/16"	12.7	1/2"	clear	30	293.00
17439	7.9	5/16"	12.7	1/2"	black	5	78.00
17440	7.9	5/16"	12.7	1/2"	black	15	188.00
17441	7.9	5/16"	12.7	1/2"	black	30	293.00
17442	7.9	5/16"	12.7	1/2"	white	5	78.00
17443	7.9	5/16"	12.7	1/2"	white	15	188.00
17444	7.9	5/16"	12.7	1/2"	white	30	293.00
17445	7.9	5/16"	12.7	1/2"	red	5	78.00
17446	7.9	5/16"	12.7	1/2"	red	15	188.00
17447	7.9	5/16"	12.7	1/2"	red	30	293.00
17448	7.9	5/16"	12.7	1/2"	green	5	78.00
17449	7.9	5/16"	12.7	1/2"	green	15	188.00
17450	7.9	5/16"	12.7	1/2"	green	30	293.00
17451	7.9	5/16"	12.7	1/2"	blue	5	78.00
17452	7.9	5/16"	12.7	1/2"	blue	15	188.00
17453	7.9	5/16"	12.7	1/2"	blue	30	293.00
17454	7.9	5/16"	12.7	1/2"	yellow	5	78.00
17455	7.9	5/16"	12.7	1/2"	yellow	15	188.00
17456	7.9	5/16"	12.7	1/2"	yellow	30	293.00
17457	9.5	3/8"	12.7	1/2"	clear	5	63.00
17458	9.5	3/8"	12.7	1/2"	clear	15	153.00
17459	9.5	3/8"	12.7	1/2"	clear	30	237.00
17460	9.5	3/8"	12.7	1/2"	black	5	63.00
17461	9.5	3/8"	12.7	1/2"	black	15	153.00
17462	9.5	3/8"	12.7	1/2"	black	30	237.00
17463	9.5	3/8"	12.7	1/2"	white	5	63.00
17464	9.5	3/8"	12.7	1/2"	white	15	153.00

Item	Inside Ø mm	Inside Ø inch	Outside Ø mm	Outside Ø inch	Colour	Unit m	Price EURO
17465	9.5	3/8"	12.7	1/2"	white	30	237.00
17466	9.5	3/8"	12.7	1/2"	red	5	63.00
17467	9.5	3/8"	12.7	1/2"	red	15	153.00
17468	9.5	3/8"	12.7	1/2"	red	30	237.00
17469	9.5	3/8"	12.7	1/2"	green	5	63.00
17470	9.5	3/8"	12.7	1/2"	green	15	153.00
17471	9.5	3/8"	12.7	1/2"	green	30	237.00
17472	9.5	3/8"	12.7	1/2"	blue	5	63.00
17473	9.5	3/8"	12.7	1/2"	blue	15	153.00
17474	9.5	3/8"	12.7	1/2"	blue	30	237.00
17475	9.5	3/8"	12.7	1/2"	yellow	5	63.00
17476	9.5	3/8"	12.7	1/2"	yellow	15	153.00
17477	9.5	3/8"	12.7	1/2"	yellow	30	237.00
17478	11.1	7/16"	14.3	9/16"	clear	5	68.00
17479	11.1	7/16"	14.3	9/16"	clear	15	166.00
17480	11.1	7/16"	14.3	9/16"	clear	30	258.00
17481	11.1	7/16"	14.3	9/16"	black	5	68.00
17482	11.1	7/16"	14.3	9/16"	black	15	166.00
17483	11.1	7/16"	14.3	9/16"	black	30	258.00
17484	11.1	7/16"	14.3	9/16"	white	5	68.00
17485	11.1	7/16"	14.3	9/16"	white	15	166.00
17486	11.1	7/16"	14.3	9/16"	white	30	258.00
17487	11.1	7/16"	14.3	9/16"	red	5	68.00
17488	11.1	7/16"	14.3	9/16"	red	15	166.00
17489	11.1	7/16"	14.3	9/16"	red	30	258.00
17490	11.1	7/16"	14.3	9/16"	green	5	68.00
17491	11.1	7/16"	14.3	9/16"	green	15	166.00
17492	11.1	7/16"	14.3	9/16"	green	30	258.00
17493	11.1	7/16"	14.3	9/16"	blue	5	68.00
17494	11.1	7/16"	14.3	9/16"	blue	15	166.00
17495	11.1	7/16"	14.3	9/16"	blue	30	258.00
17496	11.1	7/16"	14.3	9/16"	yellow	5	68.00
17497	11.1	7/16"	14.3	9/16"	yellow	15	166.00
17498	11.1	7/16"	14.3	9/16"	yellow	30	258.00
17499	12.7	1/2"	15.9	5/8"	clear	5	78.00
17500	12.7	1/2"	15.9	5/8"	clear	15	191.00
17501	12.7	1/2"	15.9	5/8"	clear	30	296.00
17502	12.7	1/2"	15.9	5/8"	black	5	78.00
17503	12.7	1/2"	15.9	5/8"	black	15	191.00
17504	12.7	1/2"	15.9	5/8"	black	30	296.00
17505	12.7	1/2"	15.9	5/8"	white	5	78.00
17506	12.7	1/2"	15.9	5/8"	white	15	191.00
17507	12.7	1/2"	15.9	5/8"	white	30	296.00
17508	12.7	1/2"	15.9	5/8"	red	5	78.00
17509	12.7	1/2"	15.9	5/8"	red	15	191.00
17510	12.7	1/2"	15.9	5/8"	red	30	296.00
17511	12.7	1/2"	15.9	5/8"	green	5	78.00
17512	12.7	1/2"	15.9	5/8"	green	15	191.00
17513	12.7	1/2"	15.9	5/8"	green	30	296.00
17514	12.7	1/2"	15.9	5/8"	blue	5	78.00
17515	12.7	1/2"	15.9	5/8"	blue	15	191.00
17516	12.7	1/2"	15.9	5/8"	blue	30	296.00
17517	12.7	1/2"	15.9	5/8"	yellow	5	78.00
17518	12.7	1/2"	15.9	5/8"	yellow	15	191.00
17519	12.7	1/2"	15.9	5/8"	yellow	30	296.00

## THOMAFLUID®-PVC Electrical Insulation Tubing

### Application area

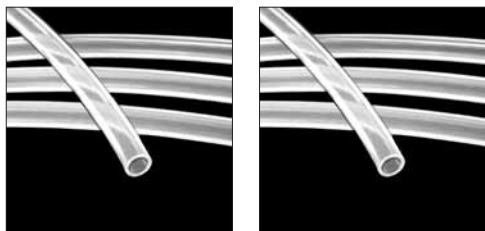
- Automobile industry, electrical industry, telecommunications industry, apparatus engineering and installations

### Product specification

- Outstanding electrical parameters
- Lowest wall thicknesses
- Excellent resistance to aging and weather
- High colour stability
- Chemical-resistant to a great degree

### Technical specification

- **Material:** PVC (polyvinyl chloride) special compound, modified
- **Shore hardness A:** 92° (DIN 53505)
- **Resistivity:** 10<sup>12</sup> Ohm x cm
- **DC resistance:** absolute
- **Dielectric strength:** 30 kV/mm
- **Dielectric constant:** 50 Hz 4.0; 800 Hz 3.4; 1 Mill Hz 3.4
- **Dissipation factor:** 800 Hz 0.020; 1 Mill Hz 0.015
- **Tensile strength:** 260 kg/cm<sup>2</sup> (DIN 53504)
- **Elongation at break:** 300 % (DIN 53504)
- **Apparent density after suspension method:** 1.3 (DIN 53479)
- **Temperature range:** -20 to +90 °C, for a short time +105 °C
- **Insulation class:** Y according to VDE 0530
- **Tolerance:** DIN 40621 B



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330490	0.5	1	0.25	transparent	10	12.00
330491	0.5	1	0.25	transparent	30	30.00
330492	0.5	1	0.25	white	10	12.00
330493	0.5	1	0.25	white	30	30.00
3304931	0.5	1	0.25	black	10	12.00
3304941	0.5	1	0.25	black	30	30.00
330495	0.5	1	0.25	red	10	12.00
330496	0.5	1	0.25	red	30	30.00
330497	0.5	1	0.25	blue	10	12.00
330498	0.5	1	0.25	blue	30	30.00
330499	0.5	1	0.25	yellow	10	12.00
330500	0.5	1	0.25	yellow	30	30.00
330501	0.5	1	0.25	green	10	12.00
330502	0.5	1	0.25	green	30	30.00
330503	0.5	1	0.25	brown	10	12.00
330504	0.5	1	0.25	brown	30	30.00
330505	0.5	1	0.25	violet	10	12.00
330506	0.5	1	0.25	violet	30	30.00
330507	0.5	1	0.25	orange	10	12.00
330508	0.5	1	0.25	orange	30	30.00
330509	0.5	1	0.25	yellow/green	10	12.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330510	0.5	1	0.25	yellow/green	30	30.00
330511	0.5	1	0.25	yellow/black	10	12.00
330512	0.5	1	0.25	yellow/black	30	30.00
330513	1	1.8	0.4	transparent	10	14.00
330514	1	1.8	0.4	transparent	30	38.00
330515	1	1.8	0.4	white	10	14.00
330516	1	1.8	0.4	white	30	38.00
330517	1	1.8	0.4	black	10	14.00
330518	1	1.8	0.4	black	30	38.00
330519	1	1.8	0.4	red	10	14.00
330520	1	1.8	0.4	red	30	38.00
330521	1	1.8	0.4	blue	10	14.00
330522	1	1.8	0.4	blue	30	38.00
330523	1	1.8	0.4	yellow	10	14.00
330524	1	1.8	0.4	yellow	30	38.00
330525	1	1.8	0.4	green	10	14.00
330526	1	1.8	0.4	green	30	38.00
330527	1	1.8	0.4	brown	10	14.00
330528	1	1.8	0.4	brown	30	38.00
330529	1	1.8	0.4	violet	10	14.00
330530	1	1.8	0.4	violet	30	38.00
330531	1	1.8	0.4	orange	10	14.00
330532	1	1.8	0.4	orange	30	38.00
330533	1	1.8	0.4	yellow/green	10	14.00
330534	1	1.8	0.4	yellow/green	30	38.00
330535	1	1.8	0.4	yellow/black	10	14.00
330536	1	1.8	0.4	yellow/black	30	38.00
330537	2	2.8	0.4	transparent	10	18.00
330538	2	2.8	0.4	transparent	30	46.00
330539	2	2.8	0.4	white	10	18.00
330540	2	2.8	0.4	white	30	46.00
330541	2	2.8	0.4	black	10	18.00
330542	2	2.8	0.4	black	30	46.00
330543	2	2.8	0.4	red	10	18.00
330544	2	2.8	0.4	red	30	46.00
330545	2	2.8	0.4	blue	10	18.00
330546	2	2.8	0.4	blue	30	46.00
330547	2	2.8	0.4	yellow	10	18.00
330548	2	2.8	0.4	yellow	30	46.00
330549	2	2.8	0.4	green	10	18.00
330550	2	2.8	0.4	green	30	46.00
330551	2	2.8	0.4	brown	10	18.00
330552	2	2.8	0.4	brown	30	46.00
330553	2	2.8	0.4	violet	10	18.00
330554	2	2.8	0.4	violet	30	46.00
330555	2	2.8	0.4	orange	10	18.00
330556	2	2.8	0.4	orange	30	46.00
330557	2	2.8	0.4	yellow/green	10	18.00
330558	2	2.8	0.4	yellow/green	30	46.00
330559	2	2.8	0.4	yellow/black	10	18.00
330560	2	2.8	0.4	yellow/black	30	46.00
330561	3	3.8	0.4	transparent	10	20.00
330562	3	3.8	0.4	transparent	30	54.00
330563	3	3.8	0.4	white	10	20.00
330564	3	3.8	0.4	white	30	54.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330565	3	3.8	0.4	black	10	20.00
330566	3	3.8	0.4	black	30	54.00
330567	3	3.8	0.4	red	10	20.00
330568	3	3.8	0.4	red	30	54.00
330569	3	3.8	0.4	blue	10	20.00
330570	3	3.8	0.4	blue	30	54.00
330571	3	3.8	0.4	yellow	10	20.00
330572	3	3.8	0.4	yellow	30	54.00
330573	3	3.8	0.4	green	10	20.00
330574	3	3.8	0.4	green	30	54.00
330575	3	3.8	0.4	brown	10	20.00
330576	3	3.8	0.4	brown	30	54.00
330577	3	3.8	0.4	violet	10	20.00
330578	3	3.8	0.4	violet	30	54.00
330579	3	3.8	0.4	orange	10	20.00
330580	3	3.8	0.4	orange	30	54.00
330581	3	3.8	0.4	yellow/green	10	20.00
330582	3	3.8	0.4	yellow/green	30	54.00
330583	3	3.8	0.4	yellow/black	10	20.00
330584	3	3.8	0.4	yellow/black	30	54.00
330585	4	5	0.5	transparent	10	26.00
330586	4	5	0.5	transparent	30	66.00
330587	4	5	0.5	white	10	26.00
330588	4	5	0.5	white	30	66.00
330589	4	5	0.5	black	10	26.00
330590	4	5	0.5	black	30	66.00
330591	4	5	0.5	red	10	26.00
330592	4	5	0.5	red	30	66.00
330593	4	5	0.5	blue	10	26.00
330594	4	5	0.5	blue	30	66.00
330595	4	5	0.5	yellow	10	26.00
330596	4	5	0.5	yellow	30	66.00
330597	4	5	0.5	green	10	26.00
330598	4	5	0.5	green	30	66.00
330599	4	5	0.5	brown	10	26.00
330600	4	5	0.5	brown	30	66.00
330601	4	5	0.5	violet	10	26.00
330602	4	5	0.5	violet	30	66.00
330603	4	5	0.5	orange	10	26.00
330604	4	5	0.5	orange	30	66.00
330605	4	5	0.5	yellow/green	10	26.00
330606	4	5	0.5	yellow/green	30	66.00
330607	4	5	0.5	yellow/black	10	26.00
330608	4	5	0.5	yellow/black	30	66.00
330609	5	6.2	0.6	transparent	10	32.00
330610	5	6.2	0.6	transparent	30	84.00
330611	5	6.2	0.6	white	10	32.00
330612	5	6.2	0.6	white	30	84.00
330613	5	6.2	0.6	red	10	32.00
330614	5	6.2	0.6	red	30	84.00
330615	5	6.2	0.6	blue	10	32.00
330616	5	6.2	0.6	blue	30	84.00
330617	5	6.2	0.6	yellow	10	32.00
330618	5	6.2	0.6	yellow	30	84.00
330619	5	6.2	0.6	green	10	32.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330620	5	6.2	0.6	green	30	84.00
330621	5	6.2	0.6	brown	10	32.00
330622	5	6.2	0.6	brown	30	84.00
330623	5	6.2	0.6	violet	10	32.00
330624	5	6.2	0.6	violet	30	84.00
330625	5	6.2	0.6	orange	10	32.00
330626	5	6.2	0.6	orange	30	84.00
330627	5	6.2	0.6	yellow/green	10	32.00
330628	5	6.2	0.6	yellow/green	30	84.00
330629	5	6.2	0.6	yellow/black	10	32.00
330630	5	6.2	0.6	yellow/black	30	84.00
330631	6	7.2	0.6	transparent	10	38.00
330632	6	7.2	0.6	transparent	30	96.00
330633	6	7.2	0.6	white	10	38.00
330634	6	7.2	0.6	white	30	96.00
330635	6	7.2	0.6	black	10	38.00
330636	6	7.2	0.6	black	30	96.00
330637	6	7.2	0.6	red	10	38.00
330638	6	7.2	0.6	red	30	96.00
330639	6	7.2	0.6	blue	10	38.00
330640	6	7.2	0.6	blue	30	96.00
330641	6	7.2	0.6	yellow	10	38.00
330642	6	7.2	0.6	yellow	30	96.00
330643	6	7.2	0.6	green	10	38.00
330644	6	7.2	0.6	green	30	96.00
330645	6	7.2	0.6	brown	10	38.00
330646	6	7.2	0.6	brown	30	96.00
330647	6	7.2	0.6	violet	10	38.00
330648	6	7.2	0.6	violet	30	96.00
330649	6	7.2	0.6	orange	10	38.00
330650	6	7.2	0.6	orange	30	96.00
330651	6	7.2	0.6	yellow/green	10	38.00
330652	6	7.2	0.6	yellow/green	30	96.00
330653	6	7.2	0.6	yellow/black	10	38.00
330654	6	7.2	0.6	yellow/black	30	96.00
330655	8	9.4	0.7	transparent	10	44.00
330656	8	9.4	0.7	transparent	30	112.00
330657	8	9.4	0.7	white	10	44.00
330658	8	9.4	0.7	white	30	112.00
330659	8	9.4	0.7	black	10	44.00
330660	8	9.4	0.7	black	30	112.00
330661	8	9.4	0.7	red	10	44.00
330662	8	9.4	0.7	red	30	112.00
330663	8	9.4	0.7	blue	10	44.00
330664	8	9.4	0.7	blue	30	112.00
330665	8	9.4	0.7	yellow	10	44.00
330666	8	9.4	0.7	yellow	30	112.00
330667	8	9.4	0.7	green	10	44.00
330668	8	9.4	0.7	green	30	112.00
330669	8	9.4	0.7	brown	10	44.00
330670	8	9.4	0.7	brown	30	112.00
330671	8	9.4	0.7	violet	10	44.00
330672	8	9.4	0.7	violet	30	112.00
330673	8	9.4	0.7	orange	10	44.00
330674	8	9.4	0.7	orange	30	112.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330675	8	9.4	0.7	yellow/green	10	44.00
330676	8	9.4	0.7	yellow/green	30	112.00
330677	8	9.4	0.7	yellow/black	10	44.00
330678	8	9.4	0.7	yellow/black	30	112.00
330679	10	11.4	0.7	transparent	10	50.00
330680	10	11.4	0.7	transparent	30	120.00
330681	10	11.4	0.7	white	10	50.00
330682	10	11.4	0.7	white	30	120.00
330683	10	11.4	0.7	black	10	50.00
330684	10	11.4	0.7	black	30	120.00
330685	10	11.4	0.7	red	10	50.00
330686	10	11.4	0.7	red	30	120.00
330687	10	11.4	0.7	blue	10	50.00
330688	10	11.4	0.7	blue	30	120.00
330689	10	11.4	0.7	yellow	10	50.00
330690	10	11.4	0.7	yellow	30	120.00
330691	10	11.4	0.7	green	10	50.00
330692	10	11.4	0.7	green	30	120.00
330693	10	11.4	0.7	brown	10	50.00
330694	10	11.4	0.7	brown	30	120.00
330695	10	11.4	0.7	violet	10	50.00
330696	10	11.4	0.7	violet	30	120.00
330697	10	11.4	0.7	orange	10	50.00
330698	10	11.4	0.7	orange	30	120.00
330699	10	11.4	0.7	yellow/green	10	50.00
330700	10	11.4	0.7	yellow/green	30	120.00
330701	10	11.4	0.7	yellow/black	10	50.00
330702	10	11.4	0.7	yellow/black	30	120.00
330703	12	13.6	0.8	transparent	10	56.00
330704	12	13.6	0.8	transparent	30	132.00
330705	12	13.6	0.8	white	10	56.00
330706	12	13.6	0.8	white	30	132.00
330707	12	13.6	0.8	black	10	56.00
330708	12	13.6	0.8	black	30	132.00
330709	12	13.6	0.8	red	10	56.00
330710	12	13.6	0.8	red	30	132.00
330711	12	13.6	0.8	blue	10	56.00
330712	12	13.6	0.8	blue	30	132.00
330713	12	13.6	0.8	yellow	10	56.00
330714	12	13.6	0.8	yellow	30	132.00
330715	12	13.6	0.8	green	10	56.00
330716	12	13.6	0.8	green	30	132.00
330717	12	13.6	0.8	brown	10	56.00
330718	12	13.6	0.8	brown	30	132.00
330719	12	13.6	0.8	violet	10	56.00
330720	12	13.6	0.8	violet	30	132.00
330721	12	13.6	0.8	orange	10	56.00
330722	12	13.6	0.8	orange	30	132.00
330723	12	13.6	0.8	yellow/green	10	56.00
330724	12	13.6	0.8	yellow/green	30	132.00
330725	12	13.6	0.8	yellow/black	10	56.00
330726	12	13.6	0.8	yellow/black	30	132.00
330727	14	16	1	transparent	10	66.00
330728	14	16	1	transparent	30	150.00
330729	14	16	1	white	10	66.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330730	14	16	1	white	30	150.00
330731	14	16	1	black	10	66.00
330732	14	16	1	black	30	150.00
330733	14	16	1	red	10	66.00
330734	14	16	1	red	30	150.00
330735	14	16	1	blue	10	66.00
330736	14	16	1	blue	30	150.00
330737	14	16	1	yellow	10	66.00
330738	14	16	1	yellow	30	150.00
330739	14	16	1	green	10	66.00
330740	14	16	1	green	30	150.00
330741	14	16	1	brown	10	66.00
330742	14	16	1	brown	30	150.00
330743	14	16	1	violet	10	66.00
330744	14	16	1	violet	30	150.00
330745	14	16	1	orange	10	66.00
330746	14	16	1	orange	30	150.00
330747	14	16	1	yellow/green	10	66.00
330748	14	16	1	yellow/green	30	150.00
330749	14	16	1	yellow/black	10	66.00
330750	14	16	1	yellow/black	30	150.00
330751	16	18	1	transparent	10	70.00
330752	16	18	1	transparent	30	154.00
330753	16	18	1	white	10	70.00
330754	16	18	1	white	30	154.00
330755	16	18	1	black	10	70.00
330756	16	18	1	black	30	154.00
330757	16	18	1	red	10	70.00
330758	16	18	1	red	30	154.00
330759	16	18	1	blue	10	70.00
330760	16	18	1	blue	30	154.00
330761	16	18	1	yellow	10	70.00
330762	16	18	1	yellow	30	154.00
330763	16	18	1	green	10	70.00
330764	16	18	1	green	30	154.00
330765	16	18	1	brown	10	70.00
330766	16	18	1	brown	30	154.00
330767	16	18	1	violet	10	70.00
330768	16	18	1	violet	30	154.00
330769	16	18	1	orange	10	70.00
330770	16	18	1	orange	30	154.00
330771	16	18	1	yellow/green	10	70.00
330772	16	18	1	yellow/green	30	154.00
330773	16	18	1	yellow/black	10	70.00
330774	16	18	1	yellow/black	30	154.00
330775	20	22.4	1.2	transparent	10	90.00
330776	20	22.4	1.2	transparent	30	194.00
330777	20	22.4	1.2	white	10	90.00
330778	20	22.4	1.2	white	30	194.00
330779	20	22.4	1.2	black	10	90.00
330780	20	22.4	1.2	black	30	194.00
330781	20	22.4	1.2	red	10	90.00
330782	20	22.4	1.2	red	30	194.00
330783	20	22.4	1.2	blue	10	90.00
330784	20	22.4	1.2	blue	30	194.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
330785	20	22.4	1.2	yellow	10	90.00
330786	20	22.4	1.2	yellow	30	194.00
330787	20	22.4	1.2	green	10	90.00
330788	20	22.4	1.2	green	30	194.00
330789	20	22.4	1.2	brown	10	90.00
330790	20	22.4	1.2	brown	30	194.00
330791	20	22.4	1.2	violet	10	90.00
330792	20	22.4	1.2	violet	30	194.00
330793	20	22.4	1.2	orange	10	90.00
330794	20	22.4	1.2	orange	30	194.00
330795	20	22.4	1.2	yellow/green	10	90.00
330796	20	22.4	1.2	yellow/green	30	194.00
330797	20	22.4	1.2	yellow/black	10	90.00
330798	20	22.4	1.2	yellow/black	30	194.00

### THOMAFLUID®-PVC Chemical Tubing - metric

#### Application area

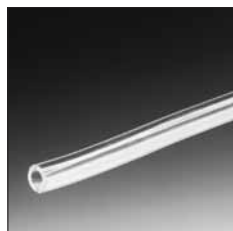
- Pharmaceutical technology, chemical engineering, laboratory technology, process engineering, environmental technology, process technology

#### Product specification

- Conveying tubing, flexible, resistant material
- Good chemical resistance, good mechanical stability
- No resistance to oil and gasoline
- Good resistance to aging and weather
- Very good dielectric properties, hardly inflammable
- Antistatic surface

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 76° ±3° (DIN 53505)
- **Density:** 1.25 g/cm<sup>3</sup>
- **Temperature range:** -20 to +60 °C, for a short time +70 °C
- **Tolerance:** DIN 16940
- **Max. operating pressure:** 2.5-13 bar depending on wall thickness and temperature



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
941051	2	4	13	10	14.00
941052	2	4	13	30	33.00
941101	3	5	9.5	10	16.00
941102	3	5	9.5	30	39.00
26783	3	6	12.5	10	16.00
26784	3	6	12.5	30	39.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
941151	4	6	7.5	10	17.00
941152	4	6	7.5	30	41.00
26785	4	7	10.5	10	19.00
26786	4	7	10.5	30	44.00
26787	4	8	12.5	10	22.00
26788	4	8	12.5	30	53.00
941201	5	7	6	10	20.00
941202	5	7	6	30	47.00
26791	5	8	8.5	10	20.00
26792	5	8	8.5	30	47.00
26793	5	9	10.5	10	26.00
26794	5	9	10.5	30	62.00
26795	5	12	12.5	10	64.00
26796	5	12	12.5	30	153.00
941251	6	8	5.5	10	23.00
941252	6	8	5.5	30	55.00
26797	6	9	7.5	10	20.00
26798	6	9	7.5	30	48.00
26799	6	10	9.5	10	30.00
26800	6	10	9.5	30	72.00
26801	6	12	12.5	10	58.00
26802	6	12	12.5	30	140.00
26803	7	9	4.5	10	24.00
26804	7	9	4.5	30	57.00
26805	7	10	6.5	10	34.00
26806	7	10	6.5	30	80.00
26807	7	11	8.5	10	43.00
26808	7	11	8.5	30	104.00
26811	8	10	4	10	32.00
26812	8	10	4	30	76.00
941301	8	11	6	10	40.00
941302	8	11	6	30	95.00
26813	8	12	7.5	10	39.00
26814	8	12	7.5	30	92.00
26815	8	14	10.5	10	47.00
26816	8	14	10.5	30	112.00
26817	9	11	3.5	5	16.00
26818	9	11	3.5	15	39.00
26819	9	12	5	5	21.00
26820	9	12	5	15	51.00
26821	9	13	8.5	5	28.00
26822	9	13	8.5	15	66.00
26823	9	14	9	5	36.00
26824	9	14	9	15	86.00
26825	9	16	10.5	5	55.00
26826	9	16	10.5	15	131.00
26827	10	13	4.5	5	25.00
26828	10	13	4.5	15	60.00
26829	10	14	6	5	30.00
26830	10	14	6	15	70.00
26831	10	16	8.5	5	49.00
26832	10	16	8.5	15	117.00
26833	11	15	5.5	5	44.00
26834	11	15	5.5	15	105.00
26835	12	15	4	5	28.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
26836	12	15	4	15	67.00
26837	12	16	5	5	33.00
26838	12	16	5	15	66.00
26839	12	17	6.5	5	45.00
26840	12	17	6.5	15	109.00
26841	12	18	7.5	5	52.00
26842	12	18	7.5	15	123.00
26843	12	20	9.5	5	65.00
26844	12	20	9.5	15	155.00
26845	13	17	5	5	39.00
26846	13	17	5	15	92.00
26847	13	18	6	5	42.00
26848	13	18	6	15	101.00
26849	13	19	7	5	26.00
26850	13	19	7	15	98.00
26851	14	18	4.5	5	36.00
26852	14	18	4.5	15	85.00
26853	14	19	5.5	5	45.00
26854	14	19	5.5	15	107.00
26855	15	19	4.5	5	39.00
26856	15	19	4.5	15	92.00
26857	15	20	5	5	52.00
26858	15	20	5	15	124.00
26859	15	21	6	5	58.00
26860	15	21	6	15	138.00
26861	16	20	4	5	39.00
26862	16	20	4	15	78.00
26863	16	21	5	5	50.00
26864	16	21	5	15	118.00
26865	16	22	6	5	60.00
26866	16	22	6	15	143.00
26867	16	23	6.5	5	76.00
26869	18	22	3.5	5	43.00
26870	18	22	3.5	15	104.00
26871	18	23	5	5	77.00
26872	18	23	5	10	139.00
26873	19	24	3	5	82.00
26874	19	24	3	10	136.00
26875	19	25	4	5	81.00
26876	19	25	4	15	201.00
26877	19	26	5	5	95.00
26878	19	26	5	10	169.00
26883	20	24	2	5	75.00
26884	20	24	2	15	192.00
26885	20	26	3	5	82.00
26886	20	26	3	15	208.00
26889	22	28	4.5	5	95.00
26890	22	28	4.5	10	167.00
26893	24	30	4	5	95.00
26894	24	30	4	15	243.00
26895	25	31	4	5	100.00
26896	25	31	4	10	177.00
26897	25	33	5	5	136.00
26898	25	33	5	10	236.00
26901	25	35	5	5	167.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
26902	25	35	5	10	284.00
26903	27	33	3	5	105.00
26904	27	33	3	15	266.00
26909	30	38	4	5	151.00
26910	30	38	4	10	264.00
26917	32	40	3	5	139.00
26918	32	40	3	15	301.00
26925	35	41	3	5	141.00
26926	35	41	3	10	238.00
26929	35	45	5	5	210.00
26930	35	45	5	10	356.00
26935	40	48	3	5	171.00
26936	40	48	3	10	315.00
26937	40	50	4	5	241.00
26938	40	50	4	10	381.00
26941	45	55	5	5	266.00
26942	45	55	5	10	371.00
26945	50	60	3	5	274.00
26946	50	60	3	10	417.00
26951	60	70	2.5	5	325.00
26952	60	70	2.5	10	471.00

<sup>1</sup> at +20 °C

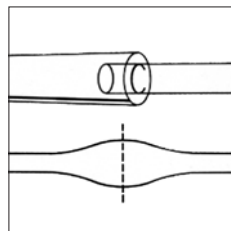
### THOMAFLUID®-PVC Bubble Chemical Tubing

#### Product specification

- A crystal-clear special tubing made of polyvinyl chloride (PVC), according to formula SHD 90.
- The tubing is produced by addition of carefully selected additives, it is transparent and supple. The wall thickness is constant, the inner surface is absolutely smooth. The tubing is non-porous and non-wettable, and it is of high tearing strength.
- Every 90 cm the tubing dilates and tapers off again, thus forming bubbles. Every desired length can be realized either with tapered or with funnel-shaped starting point. By cutting at the appropriate place, junctions for female or male connectors of different diameters can be obtained. The tubing ends are only put together. The resulting connection is absolutely tight.

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 60°
- **Temperature range:** -20 to +60 °C
- **Density:** 1.19 g/cm<sup>3</sup>
- **Sterilization:** autoclavable (+121 °C)
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>



Item	Inside Ø mm	Outside Ø mm	I-Ø of bubble mm	Unit m	Price EURO
40567 <sup>1</sup>	3.2	6.4	12.7	5	88.00
40568 <sup>1</sup>	3.2	6.4	12.7	10	133.00
40569 <sup>1</sup>	3.2	6.4	12.7	15	156.00
40570	5	7.5	12.7	5	85.00
40571	5	7.5	12.7	15	105.00
40572	5	7.5	12.7	30	159.00
40573	6.4	9.5	12.7	5	123.00
40574	6.4	9.5	12.7	10	154.00
40575	6.4	9.5	12.7	15	177.00
40576	7	8.7	12.7	5	90.00
40577	7	8.7	12.7	15	121.00
40578	7	8.7	12.7	30	185.00
40579	9.5	12.7	19	5	169.00
40580	9.5	12.7	19	10	215.00
40581	9.5	12.7	19	15	266.00
40582	12.7	15.9	19	5	195.00
40583	12.7	15.9	19	10	246.00
40584	12.7	15.9	19	15	302.00

<sup>1</sup> Colour: green-transparent

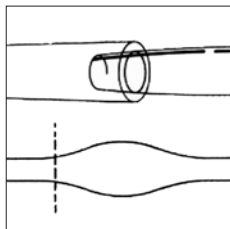
### THOMAFLUID®-PVC Bubble Chemical Tubing - Antista

#### Product specification

- A crystal-clear special tubing made of polyvinyl chloride (PVC) according to formula SHDA 90, with incorporated antistatic carbon conductivity strand (PVC-graphite compound) which guarantees the maintenance of conductivity, the leakage resistance (related to the inner surface of the tubing) being <math>10^8</math> Ohm.
- The tubing is produced by addition of carefully selected additives, it is transparent and supple. The wall thickness is constant, the inner surface is absolutely smooth. The tubing is non-porous and non-wettable, and it is of high tearing strength.

#### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 77°
- **Temperature range:** -20 to +60 °C
- **Leakage resistance:** <math>10^8</math> Ohm related to the inner surface
- **Plasticizers:** approx. 40 % DOP
- **Density:** 1.19 g/cm<sup>3</sup>
- **Sterilization:** autoclavable (+121 °C)
- **Resistance to aging:** excellent, not affected by O<sub>2</sub> and O<sub>3</sub>



Item	Inside Ø mm	Outside Ø mm	I-Ø of bubble mm	Unit m	Price EURO
40598	5	7.5	12.7	5	75.00
40599	5	7.5	12.7	15	167.00
40600	5	7.5	12.7	30	238.00
40601	7	8.6	12.7	5	90.00
40602	7	8.6	12.7	15	202.00
40603	7	8.6	12.7	30	274.00

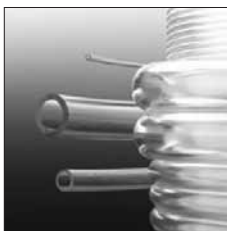
### THOMAFLUID®-PVC Tubing for Gasoline and Oil

#### Product specification

- Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, inside and outside smooth, hardly inflammable, resistant against solar radiation in middle latitudes.
- Resistant to mineral oils, greases, gasoline, diesel fuels and other aliphatic hydrocarbons, also ethanol, at +20 °C.
- Not resistant to aromatic hydrocarbons and hydraulic oils on glycol base.

#### Technical specification

- **Material:** PVC (PVC-P, the material is free of silicone and toxic heavy metals)
- **Colour:** transparent
- **Shore hardness A:** 77° ±3° (DIN 53505)
- **Temperature range:** -10 to +60 °C, at +40 °C nearly atmospheric pressure
- **Tearing strength:** 18 N/mm<sup>2</sup>
- **Elongation at break:** >300 %
- **Surface resistance:** 10<sup>11</sup> Ohm
- **Tolerance:** for internal diameter and wall thickness according to DIN 16940



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340325	2	4	13	5	24.00
340326	2	4	13	15	56.00
340327	2	4	13	30	84.00
340328	3	5	9.5	5	24.00
340329	3	5	9.5	15	56.00
340330	3	5	9.5	30	84.00
340331	3	6	12.5	5	32.00
340332	3	6	12.5	15	74.00
340333	3	6	12.5	30	108.00
27242	4	8	12.5	5	39.00
27243	4	8	12.5	15	82.00
27244	4	8	12.5	30	116.00
27245	5	9	10.5	5	37.00
27246	5	9	10.5	15	85.00
27247	5	9	10.5	30	131.00



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
27248	6	10	9.5	5	43.00
27249	6	10	9.5	15	103.00
27250	6	10	9.5	30	146.00
27251	8	12	7.5	5	46.00
27252	8	12	7.5	15	118.00
27253	8	12	7.5	30	177.00
27254	10	14	6	5	54.00
27255	10	14	6	15	131.00
27256	10	14	6	30	195.00
27257	12	16	5	5	59.00
27258	12	16	5	15	146.00
27259	12	16	5	30	218.00
27260	13	19	7	5	91.00
27261	13	19	7	15	231.00
27262	13	19	7	30	261.00
27263	16	21	5	5	91.00
27264	16	21	5	15	231.00
27265	16	21	5	30	261.00
27266	19	27	6.5	5	186.00
27267	19	27	6.5	15	405.00
27268	19	27	6.5	30	505.00
340334	20	28	4.5	5	196.00
340335	20	28	4.5	15	420.00
340336	20	28	4.5	30	554.00
340337	22	30	4.5	5	210.00
340338	22	30	4.5	15	448.00
340339	22	30	4.5	30	594.00
340340	24	30	4	5	180.00
340341	24	30	4	15	384.00
340342	24	30	4	30	506.00

<sup>1</sup> at +20 °C

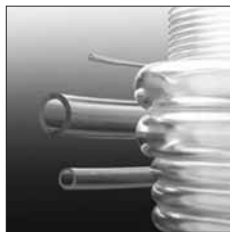
### THOMAFLUID®-PVC Food Tubing

#### Application area

- Usable for conveyance of beverages such as wine, fruit juices, lemonade, mineral water, unfermented sweetened fruit juice, and alcoholic beverages up to 13 vol.-% alcohol, but not usable for milk and beer. The temperature of the conveyed beverages should not exceed +40 °C.

#### Product specification

- Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, inside and outside smooth, hardly inflammable, sterilizable, no change of material by light or atmospheric oxygen, physiologically safe.



### Technical specification

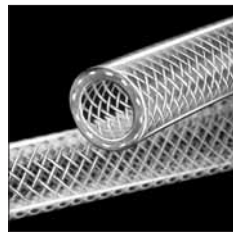
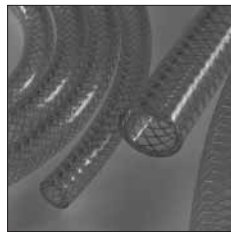
- **Material:** PVC (PVC-P, monomere softener, Additive)
- **Colour:** crystal-clear, transparent
- **Shore hardness A:** 77° ±3° (DIN 53505)
- **Temperature range:** -10 to +60 °C, at +40 °C nearly atmospheric pressure
- **Tearing strength:** 17 N/mm<sup>2</sup>
- **Elongation at break:** >350 %
- **Surface resistance:** 10<sup>11</sup> Ohm
- **Tolerance:** for internal diameter and wall thickness according to DIN 16940
- **Sterilization:** sterilizable, at least 30 times, at +121 °C at normal pressure in hot air; the sterilization periods should not exceed 30 min. each
- **Regulations:** manufactured in accordance with the recommendation of the Food Quality BgVO, KTW-C tested

Item	Inside Ø mm	Outside Ø mm	Unit m	Price EURO
27280	6	9	5	25.00
27283	6	9	15	64.00
27278	8	12	5	30.00
27279	8	12	15	78.00
27281	13	19	5	64.00
27282	13	19	15	153.00
27284	16	20	5	88.00
27285	16	20	15	211.00
27287	19	26	5	100.00
27288	19	26	15	239.00
27290	25	33	5	148.00
27291	25	33	15	354.00
27293	32	40	5	166.00
27294	32	40	15	446.00
27296	32	42	5	192.00
27297	32	42	15	520.00
27299	38	48	5	279.00
27300	38	48	15	608.00
27302	40	48	5	232.00
27303	40	48	15	608.00
27305	40	50	5	265.00
27306	40	50	15	717.00
27308	50	60	5	305.00
27309	50	60	15	825.00

### THOMAFLUID®-PVC Food Pressure Tubing

#### Application area

- Usable for conveyance of beverages such as wine, fruit juices, lemonade, mineral water, unfermented sweetened fruit juice, and alcoholic beverages up to 13 vol.-% alcohol, but not usable for milk and beer. The temperature of the conveyed beverages should not exceed +60 °C.



**Product specification**

- Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, inside and outside smooth, hardly inflammable, sterilizable, no change of material by light or atmospheric oxygen, physiologically safe.

**Technical specification**

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear, transparent
- **Shore hardness A:** 75° ±3° (DIN 53505)
- **Temperature range:** -10 to +60 °C
- **Insert:** braided fabric insert
- **Tensile strength:** 190 kp/cm<sup>2</sup>
- **Elongation at break:** 390 %
- **Density:** 1.25 g/cm<sup>3</sup>
- **Sterilization:** sterilizable at least 30 times, at +120 °C at normal pressure in hot air; the sterilization periods should not exceed 30 min. each
- **Design:** tubing with increased resistance to pressure for technical use
- **Tolerances inside Ø:** 8-10 mm ±0.5 mm; 10-18 mm ±0.8 mm; 18-24 mm ±1.0 mm; 24-30 mm ±1.5 mm; 30-50 mm ±2.0 mm
- **Regulations:** BfR XXIX

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
27329	8	14	23	5	69.00
27330	8	14	23	15	177.00
27332	10	16	21	5	82.00
27333	10	16	21	15	213.00
27335	13	20	18	5	121.00
27336	13	20	18	15	310.00
27341	19	27	12	5	179.00
27342	19	27	12	15	458.00
27344	25	34	8	5	261.00
27345	25	34	8	15	663.00
27347	32	42	8	5	364.00
27348	32	42	8	15	939.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-PVC Suction and Pressure Food Tubing**

**Application area**

- Food technology, beverage industry, soft drink production

**Product specification**

- Rigid and robust design
- Tasteless and odourless
- Physiologically safe
- Resistant to weather and aging
- Not suitable for fat-containing food
- Steam stripping is not allowed
- For filling of beverages with alcohol content of max. 28 %



**Technical specification**

- **Material:** PVC-Compound (polyvinylchloride)
- **Colour:** white
- **Temperature range:** -15 to +60 °C
- **Insert:** embedded steel wire spiral
- **Max. operating pressure:** 7 to 8 bar at +20 °C
- **Vacuum strength:** 0.9 bar at +20 °C
- **Regulations:** EU 10/2011 Kat. A/B/C/D/1
- **Marking:** FOOD REG EU 10/2011

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340286	20	27	8	5	86.00
340287	20	27	8	10	152.00
340288	25	33	8	5	130.00
340289	25	33	8	10	236.00
340290	32	40	8	3	122.00
340291	32	40	8	5	186.00
340292	38	47	7	3	146.00
340293	38	47	7	5	222.00

<sup>1</sup> at +20 °C

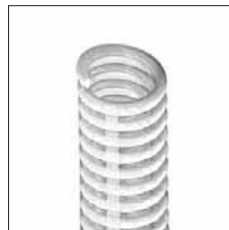
**THOMAFLUID®-PVC Corrugated Tubing for Milk and Food**

**Product specification**

- Suction and pressure tubing, recommended for fat containing food

**Technical specification**

- **Material:** PVC (polyvinyl chloride)
- **Colour:** transparent
- **Temperature range:** -10 to +60 °C
- **Insert:** PVC rigid spiral, white
- **Vacuum strength:** 70 % at +20 °C
- **Bursting pressure:** 15 bar
- **Design:** inside and outside corrugated



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12409	30	36	5	150	5	95.00
12410	30	36	5	150	10	202.00
12411	32	38	5	155	5	100.00
12412	32	38	5	155	10	162.00
12413	35	41	5	170	5	110.00
12414	35	41	5	170	10	185.00
12415	40	47	5	195	5	121.00
12416	40	47	5	195	10	197.00
12417	45	53	5	215	5	144.00

Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12418	45	53	5	215	10	233.00
12419	50	58	5	235	5	167.00
12420	50	58	5	235	10	274.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PVC Corrugated Tubing for Wine and Food

### Product specification

- Suction and pressure tubing, recommended for fat free food

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** transparent
- **Temperature range:** -10 to +60 °C
- **Insert:** PVC rigid spiral, red
- **Vacuum strength:** 98 % at +20 °C
- **Bursting pressure:** 3-fold operating pressure
- **Design:** inside and outside corrugated



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12389	30	37.8	8	190	5	100.00
12390	30	37.8	8	190	10	166.00
12391	35	43.4	7	230	5	121.00
12392	35	43.4	7	230	10	195.00
12393	40	49.2	7	270	5	136.00
12394	40	49.2	7	270	10	220.00
12395	45	54.8	7	310	5	164.00
12396	45	54.8	7	310	10	271.00
12397	50	60.6	6	350	5	182.00
12398	50	60.6	6	350	10	300.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PVC Pressure Tubing - thin-walled

### Application area

- Hydraulic and pneumatic line, cooling line for welding systems, mechanical engineering and process engineering

### Product specification

- Highest pressure resistance
- High flexibility
- Extremely thin-walled tubing, very low weight
- Extreme resistance to various fats and oils, diluted acids and alkalis

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:**  
Liner: black  
Jacket: blue (paste-coated)
- **Shore hardness A:** 76° (DIN 53505)
- **Temperature range:** -20 to +90 °C
- **Insert:** fabric insert (synthetic filament-reinforced)
- **Bursting pressure:** 3.5-fold safety factor
- **Dielectric strength:** 22 kV/mm



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
330142	3	5.2	40	45	5	62.00
330143	3	5.2	40	45	15	144.00
330144	4	6.2	40	50	5	80.00
330145	4	6.2	40	50	15	176.00
330146	5	7.2	40	55	5	82.00
330147	5	7.2	40	55	15	180.00
330148	6	8.2	40	60	5	84.00
330149	6	8.2	40	60	15	184.00
330150	8	10.2	35	65	5	96.00
330151	8	10.2	35	65	15	212.00
330152	9	11.6	30	70	5	114.00
330153	9	11.6	30	70	15	252.00
330154	10	12.5	28	80	5	118.00
330155	10	12.5	28	80	15	258.00
330156	13	17.6	28	100	5	188.00
330157	13	17.6	28	100	15	416.00

<sup>1</sup> at +20 °C

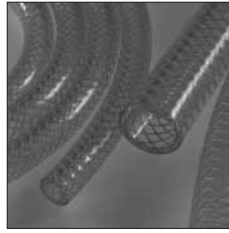
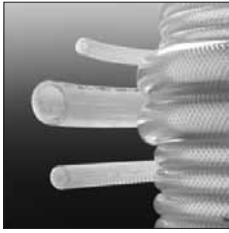
## THOMAFLUID®-PVC Chemical Pressure Tubing

### Product specification

- Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, inside and outside smooth, hardly inflammable, to a high degree resistant to hot water and oil (e.g. heating oil) at flow, sterilizable, no change of material by light or atmospheric oxygen.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear, transparent
- **Shore hardness A:** 75° ±3° (DIN 53505)
- **Insert:** braided fabric insert
- **Tensile strength:** 190 kp/cm<sup>2</sup>
- **Elongation at break:** 390 %
- **Density:** 1.25 g/cm<sup>3</sup>
- **Tolerances inside Ø:** 3-6 mm ±0.4 mm; 6-10 mm ±0.5 mm; 10-19 mm ±0.8 mm
- **Reduction factor:** at +60 °C approx. 46 %



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
26965	4	10	24	5	34.00
26966	4	10	24	15	80.00
26967	5	11	23	5	37.00
26968	5	11	23	15	87.00
26969	6	12	23	5	37.00
26970	6	12	23	15	88.00
26971	8	14	22	5	44.00
26972	8	14	22	15	106.00
26973	9	15	19	5	46.00
26974	9	15	19	15	111.00
26975	10	16	17	5	48.00
26976	10	16	17	15	116.00
26977	12	21	15	5	80.00
26978	12	21	15	15	191.00
26979	12.5	18.5	14	5	51.00
26980	12.5	18.5	14	15	120.00
26981	13	20	13	5	63.00
26982	13	20	13	15	150.00
26983	13	22	13	5	83.00
26984	13	22	13	15	199.00
26985	16	23	13	5	90.00
26986	16	23	13	15	204.00
26987	16	24	14	5	98.00
26988	16	24	14	15	208.00
26989	16	26	14	5	135.00
26990	16	26	14	15	282.00
26991	19	27	12	5	108.00
26992	19	27	12	15	230.00
26993	19	29	12	5	144.00
26994	19	29	12	15	308.00
26995	25	34	6	5	147.00
26996	25	34	6	15	314.00
26999	25	37	10	5	227.00
27000	25	37	10	15	483.00
27001	30	38	5	5	171.00
27002	30	38	5	15	362.00
27005	38	48	8	5	259.00
27006	38	48	8	15	553.00

<sup>1</sup> at +20 °C

## THOMAFUID®-PVC Compressed Air Tubing

### Application area

- Plant construction, process engineering, machine construction, process technology, hydraulic and pneumatic piping, engineering operations and maintenance

### Product specification

- High pressure resistance, low weight, robust type, high flexibility

### Technical specification

- Material:** PVC (polyvinylchloride)

#### Colour:

Liner: black, smooth  
Jacket: beige, smooth

- Temperature range:** -20 to +60 °C

- Max. operating pressure:** 20 bar at +20 °C

- Bursting pressure:** 60 bar at +20 °C

- Design:** inside and outside smooth

- Marking:** PN 20 bar



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340060	6	11	20	10	64.00
340061	6	11	20	20	118.00
340062	8	13	20	5	46.00
340063	8	13	20	10	86.00
340064	10	15.5	20	5	50.00
340065	10	15.5	20	10	92.00
340066	13	19	20	5	66.00
340067	13	19	20	10	122.00
340068	16	23	20	5	96.00
340069	16	23	20	10	182.00
340070	19	26.5	20	5	114.00
340071	19	26.5	20	10	216.00
340072	25	33.5	20	5	160.00
340073	25	33.5	20	10	300.00

<sup>1</sup> at +20 °C

## THOMAFUID®-PVC Water Tubing - Standard

### Application area

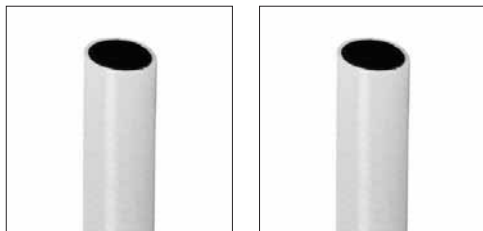
- Water purification, process technology, environmental technology, process engineering, sewage technology

### Product specification

- Combination of a knitted and a spiraled insert
- Non-twisting and low stretch
- Pressure tubing, high mechanical stability, hardly inflammable
- Good resistance to weather and aging
- Cadmium-free

**Technical specification**

- **Material:** PVC (polyvinylchloride)
- **Colour:**  
Liner: black  
Jacket: yellow
- **Temperature range:** -15 to +60 °C
- **Insert:** fitted with specially-knitted, non-twisting insert
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C
- **Design:** inside and outside smooth
- **Tolerance:** according to DIN 16940
- **Marking:** cadmium-free



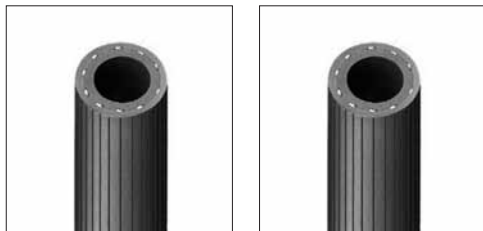
Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Bursting pressure <sup>1</sup> bar	Unit m	Price EURO
340074	12.5	17	10	30	10	54.00
340075	12.5	17	10	30	20	80.00
340076	15	20	10	30	10	60.00
340077	15	20	10	30	20	108.00
340078	19	25	10	30	10	76.00
340079	19	25	10	30	20	138.00
340080	25	32	10	30	5	60.00
340081	25	32	10	30	10	108.00
340082	32	42	10	30	5	92.00
340083	32	42	10	30	10	166.00
340084	40	50	10	30	5	132.00
340085	40	50	10	30	10	238.00
340086	50	62	10	30	5	208.00
340087	50	62	10	30	10	374.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-PVC Water Tubing - TPE Special Compound**

**Application area**

- Hydraulic engineering, water supply, chemical engineering, plant technology, engineering operations and maintenance



**Product specification**

- Pressure tubing for constant pressures, robust type
- Resistant to weather and aging, hardly inflammable
- Good mechanical stability

**Technical specification**

- **Material:** PVC (polyvinylchloride) as thermoplastic special compound
- **Colour:**  
Liner: black  
Jacket: red
- **Insert:** crossed polyester insert
- **Temperature range:** -20 to +60 °C
- **Max. operating pressure:** 10 bar at +20 °C
- **Bursting pressure:** 30 bar at +20 °C
- **Design:** inside and outside smooth
- **Marking:** PN 10 bar

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Unit m	Price EURO
340102	13	19	10	5	46.00
340103	13	19	10	10	84.00
340104	13	19	10	20	148.00
340105	19	26	10	5	84.00
340296	19	26	10	10	148.00
340297	19	26	10	20	258.00
340298	25	33	10	5	112.00
340299	25	33	10	10	196.00
340300	25	33	10	20	336.00

<sup>1</sup> at +20 °C

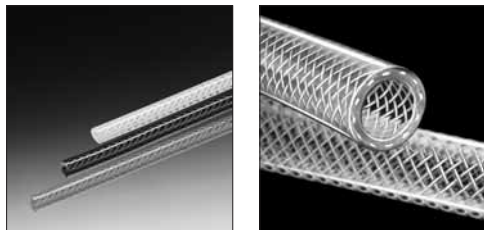
**THOMAFLUID®-PVC Colour Pressure Tubing**

**Product specification**

- Light, coloured transparent universal tubing. Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, hardly inflammable, to a high degree resistant to hot water and oil (e.g. heating oil) at flow, sterilizable, no change of material by light or atmospheric oxygen.

**Technical specification**

- **Material:** PVC soft (inside and outside), smooth
- **Colour:** transparent blue, green or yellow
- **Temperature range:** -10 to +60 °C
- **Insert:** rayon braiding
- **Max. operating pressure:** 20 bar at +20 °C
- **Bursting pressure:** 80 bar



Item	Inside Ø mm	Outside Ø mm	Colour	Unit m	Price EURO
339638	4	10	blue	5	46.00
339639	4	10	blue	15	125.00

Item	Inside Ø mm	Outside Ø mm	Colour	Unit m	Price EURO
339640	4	10	green	5	46.00
339641	4	10	green	15	125.00
339642	4	10	yellow	5	46.00
339643	4	10	yellow	15	125.00

## THOMAFLUID®-PVC High-Pressure Tubing

### Product specification

- Light high pressure tubing for industrial processes, also usable as spray hose for trees (plant protection)
- Very good mechanical stability
- Highly resistant to aging and weather
- Very good dielectric properties
- Antiadhesive surface

### Technical specification

- **Material:** PVC-P (polyvinyl chloride) soft
- **Colour:** inside black, outside blue
- **Temperature range:** -15 to +60 °C
- **Bursting pressure:** 240 bar
- **Insert:** polyester braiding
- **Design:** inside and outside smooth



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12628	8	15	80	30	5	90.00
12629	8	15	80	30	10	162.00
12630	10	18	80	40	5	100.00
12631	10	18	80	40	10	182.00
12632	13	21	80	60	3	87.00
12633	13	21	80	60	5	136.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PVC Corrugated Tubing

### Application area

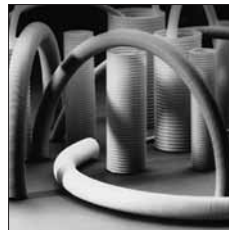
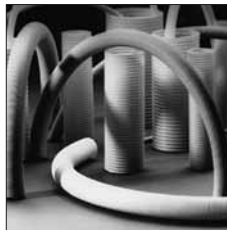
- Protection of transmission lines during stationary installation and building in the areas of engine construction, chemical apparatus construction, electronic engineering as well as for pressureless conveyance of liquid and gaseous media.

### Product specification

- Lightweight, flexible corrugated tubing made of flame-resistant polyvinyl chloride (PVC-U), grey-yellow or white coloured. Flexible, mechanically loadable, good electrical properties, good chemical resistance to alkalis, acids, inorganic salt solutions, oxidants, amines, mineral oils and fats. Not resistant to aromatic and halogenated solvents.

### Technical specification

- **Material:** PVC (polyvinyl chloride) soft
- **Temperature range:** 0 to +60 °C (DIN 53446)
- **Density:** 1.38 g/cm<sup>3</sup> (DIN 53479)
- **Tearing strength:** 50 N/mm<sup>2</sup> (DIN 53455)
- **Elongation at break:** 20 - 70 % (DIN 53455)
- **E-modulus:** 1800 - 3500 N/mm<sup>2</sup> (DIN 53457)
- **Impact toughness:** without break (DIN 53453)
- **Notch impact strength:** 2 - 15 (DIN 53453)
- **Linear expansion coefficient:** 0.6 - 0.9 x 10<sup>-4</sup> x K<sup>-1</sup> (DIN 52523)
- **Thermal conductivity:** 0.15 W/mK (DIN 52612)
- **Track resistance:** KA3b (DIN 53480)
- **Dielectric strength:** 45 kV/mm (DIN 53481)



Item	Nominal width mm	Outside Ø mm	Inside Ø mm	Min. bending radius mm	Unit m	Price EURO
43367	10	12.9	10	15	5	28.00
43368	10	12.9	10	15	10	48.00
43369	10	12.9	10	15	15	68.00
43370	12	15.8	12	20	5	32.00
43371	12	15.8	12	20	10	58.00
43372	12	15.8	12	20	15	78.00
43376	14	18.6	14.4	25	5	36.00
43377	14	18.6	14.4	25	10	63.00
43378	14	18.6	14.4	25	15	86.00
43379	16	19	15.2	25	5	44.00
43380	16	19	15.2	25	10	77.00
43381	16	19	15.2	25	15	105.00
43382	17	21.2	16.7	30	5	45.00
43383	17	21.2	16.7	30	10	80.00
43384	17	21.2	16.7	30	15	110.00

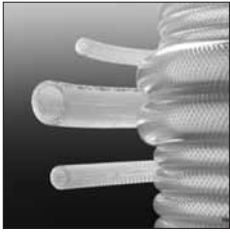
## THOMAFLUID®-PVC Spiral Chemical Tubing

### Product specification

- Flexible and resistant material, resistant to aging and abrasion, rugged and pressure-proof, inside and outside smooth, hardly inflammable, to a high degree resistant to hot water and oil (e.g. heating oil) at flow, sterilizable, no change of material by light or atmospheric oxygen.

### Technical specification

- **Material:** PVC (polyvinyl chloride)
- **Colour:** crystal-clear
- **Shore hardness A:** 75° ±3° (DIN 53505)
- **Density:** 1.25 g/cm<sup>3</sup>
- **Tensile strength:** 190 kp/cm<sup>2</sup>
- **Elongation at break:** 390 %
- **Tolerance:** DIN ISO 3302-1 E2



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
27356	6	10	3	20	5	69.00
27357	6	10	3	20	10	118.00
27359	8	12.6	3	30	5	80.00
27360	8	12.6	3	30	10	133.00
27362	10	15.4	3	40	5	105.00
27363	10	15.4	3	40	10	167.00
27365	13	18.8	2	50	5	110.00
27366	13	18.8	2	50	10	177.00
27368	16	23	2	70	5	121.00
27369	16	23	2	70	15	248.00
27370	19	26	2	80	5	197.00
27371	19	26	2	80	15	371.00
27372	25	34	1	110	5	197.00
27373	25	34	1	110	15	371.00
27374	32	41	1	130	5	236.00
27375	32	41	1	130	10	422.00
27376	38	48	1	200	5	312.00
27377	38	48	1	200	10	468.00
27378	45	57	1	200	5	348.00
27379	45	57	1	200	10	504.00

<sup>1</sup> at +20 °C

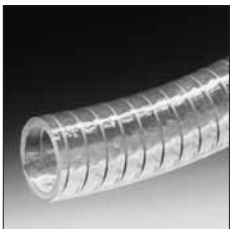
### THOMAFLUID®-PVC Spiral Industrial Tubing

#### Product specification

- Suction and pressure tubing
- Very robust design with steel wire spiral

#### Technical specification

- **Material:** PVC, soft
- **Colour:** transparent
- **Temperature range:** -10 to +60 °C
- **Insert:** with embedded steel wire spiral
- **Vacuum strength:** 90 % at +20 °C
- **Design:** inside and outside slightly corrugated



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
10024	6	12	7	13	3	41.00
10025	6	12	7	13	9	98.00
10026	8	14	7	16	3	46.00
10027	8	14	7	16	9	110.00
10028	10	16	7	20	3	49.00
10029	10	16	7	20	9	113.00
10030	12	17.8	7	25	3	52.00
10031	12	17.8	7	25	9	118.00
10032	16	21.7	6	35	3	64.00
10033	16	21.7	6	35	9	151.00
10034	20	27.1	5	50	3	85.00
10035	20	27.1	5	50	9	200.00
10036	25.4	33.3	5	60	3	116.00
10037	25.4	33.3	5	60	9	274.00
10038	30	38.4	4	70	2	98.00
10039	30	38.4	4	70	6	231.00
10040	35	43.4	4	80	2	118.00
10041	35	43.4	4	80	6	282.00
10042	40	49.2	3	95	1	77.00
10043	40	49.2	3	95	3	185.00
10044	51	61.1	3	125	1	100.00
10045	51	61.1	3	125	3	208.00
10046	60	72.3	2	135	1	105.00
10047	60	72.3	2	135	3	223.00
10048	63.5	76.3	2	150	1	110.00
10049	63.5	76.3	2	150	3	233.00
10050	70	83.2	2	180	1	116.00
10051	70	83.2	2	180	3	238.00
10052	76	89.8	2	195	1	121.00
10053	76	89.8	2	195	3	254.00
12584	80	93.2	2	220	1	133.00
12585	80	93.2	2	220	3	341.00
12586	90	103.2	2	260	1	141.00
12587	90	103.2	2	260	3	356.00
12588	102	116.3	2	260	1	156.00
12589	102	116.3	2	260	3	389.00
12590	110	123.8	2	340	1	174.00
12591	110	123.8	2	340	3	450.00
12592	127	142.6	2	385	1	185.00
12593	127	142.6	2	385	3	491.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PVC Spiral Ventilation Tubing - ultra-light

#### Product specification

- Very light design
- Tubing with integrated PVC spiral, ideally suitable for ventilation
- Very good mechanical stability
- Resistance to aging and weather
- Hardly inflammable
- Antistatic surface

**Technical specification**

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** blue
- **Temperature range:** -10 to +50 °C
- **Weight:** 0.13 to 1.5 kg/m
- **Insert:** a rigid PVC spiral
- **Design:** inside smooth, outside corrugated



Item	Inside Ø	Outside Ø	Vacuum	Min. bending radius	Unit	Price
	mm	mm	mbar	mm	m	EURO
12927	20	24.6	75	40	5	59.00
12928	20	24.6	75	40	10	110.00
12929	25	29.6	75	40	5	64.00
12930	25	29.6	75	40	10	118.00
12931	30	34.8	65	40	5	77.00
12932	30	34.8	65	40	10	141.00
12933	35	40.2	65	40	5	82.00
12934	35	40.2	65	40	10	146.00
12935	40	45.4	65	60	5	92.00
12936	40	45.4	65	60	10	169.00
12937	45	50.4	65	80	5	100.00
12938	45	50.4	65	80	10	190.00
12939	50	55.8	65	90	5	110.00
12940	50	55.8	65	90	10	208.00
12941	63.5	70.3	65	100	5	159.00
12942	63.5	70.3	65	100	10	294.00
12943	70	77.4	45	110	3	110.00
12944	70	77.4	45	110	5	169.00
12945	76.2	83.6	45	110	3	116.00
12946	76.2	83.6	45	110	5	179.00
12947	80	88	45	130	3	123.00
12948	80	88	45	130	5	192.00
12949	90	98.2	35	150	3	141.00
12950	90	98.2	35	150	5	218.00
12951	102	110.6	35	160	3	156.00
12952	102	110.6	35	160	5	243.00
12953	110	119.2	35	190	1	64.00
12954	110	119.2	35	190	3	166.00
12955	120	129.4	35	200	1	69.00
12956	120	129.4	35	200	3	187.00
12957	127	136.6	35	230	1	77.00
12958	127	136.6	35	230	3	208.00
12959	140	150	25	260	1	90.00
12960	140	150	25	260	3	243.00
12961	151.5	162.5	30	280	1	100.00
12962	151.5	162.5	30	280	3	264.00

**THOMAFLUID®-PVC Spiral Ventilation Tubing - light**

**Product specification**

- Light design
- Ideal tubing for ventilation
- Very good mechanical stability
- Resistant to weather and aging
- Hardly inflammable
- Antiadhesive surface

**Technical specification**

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** grey
- **Temperature range:** -15 to +50 °C
- **Weight:** 0.15 to 3.21 kg/m
- **Insert:** a rigid PVC spiral, inside integrated, white
- **Design:** inside and outside corrugated



Item	Inside Ø	Outside Ø	Vacuum	Min. bending radius	Unit	Price
	mm	mm	mbar	mm	m	EURO
12642	25	30	245	30	5	67.00
12643	25	30	245	30	10	121.00
12644	30	35.2	245	35	5	87.00
12645	30	35.2	245	35	10	162.00
12646	35	40.8	195	35	5	95.00
12647	35	40.8	195	35	10	174.00
12648	40	46	195	50	5	113.00
12649	40	46	195	50	10	208.00
12650	45	51.2	195	55	5	123.00
12651	45	51.2	195	55	10	223.00
12652	50	57	195	60	5	146.00
12653	50	57	195	60	10	269.00
12654	60	67.2	155	70	5	169.00
12655	60	67.2	155	70	10	310.00
12656	70	77.6	145	90	3	126.00
12657	70	77.6	145	90	5	190.00
12658	76.2	83.6	145	100	3	136.00
12659	76.2	86.6	145	100	5	208.00
12660	80	88.6	145	110	3	141.00
12661	80	88.6	145	110	5	218.00
12662	90	99	135	125	3	164.00
12663	90	99	135	125	5	251.00
12664	100	109.2	125	140	1	75.00
12665	100	109.2	125	140	3	174.00
12666	110	120	115	150	1	77.00
12667	110	120	115	150	3	192.00
12668	120	130	95	160	1	80.00
12669	120	130	95	160	3	197.00



Item	Inside Ø	Outside Ø	Vacuum	Min. bending radius	Unit	Price
	mm	mm	mbar	mm	m	EURO
12670	127	137	95	170	1	90.00
12671	127	137	95	170	3	225.00
12672	130	140	85	170	1	92.00
12673	130	140	85	170	3	233.00
12674	140	150.2	85	175	1	98.00
12675	140	150.2	85	175	3	254.00
12676	151.1	161.9	75	180	1	105.00
12677	151.1	161.9	75	180	3	269.00
12678	160	172	65	190	1	113.00
12679	180	192	40	300	1	128.00
12680	200	212	40	400	1	146.00
12681	250	263.6	40	450	1	220.00

### THOMAFLUID®-PVC Spiral Ventilation Tubing - ultra-flexible

#### Product specification

- Very light and extremely flexible ventilation tubing
- Dammable up to approx. 65 %
- Resistant to weather and aging
- Hardly inflammable
- Best mechanical properties

#### Technical specification

- **Material:** PVC-coated tissue made of PA
- **Colour:** grey
- **Temperature range:** -25 to +75 °C
- **Insert:** a welded-in steel wire spiral
- **Design:** inside and outside corrugated
- **Flammability rating:** B1 (DIN 4102)



Item	Inside Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	bar	mbar	mm	m	EURO
12963	50	0.03	63	40	3	70.00
12964	50	0.03	63	40	6	129.00
12965	76	0.03	63	55	3	86.00
12966	76	0.03	63	55	6	156.00
12967	82	0.03	63	60	3	90.00
12968	82	0.03	63	60	6	170.00
12969	89	0.03	63	65	3	105.00
12970	89	0.03	63	65	6	194.00
12971	102	0.03	63	75	3	105.00
12972	102	0.03	63	75	6	194.00
12973	110	0.03	63	80	3	118.00

Item	Inside Ø	Max. op. pressure <sup>1</sup>	Vacuum <sup>1</sup>	Min. bending radius	Unit	Price
	mm	bar	mbar	mm	m	EURO
12974	110	0.03	63	80	6	212.00
12975	120	0.03	63	85	3	126.00
12976	120	0.03	63	85	6	192.00
12977	127	0.03	63	90	3	126.00
12978	127	0.03	63	90	6	192.00
12979	140	0.03	63	100	3	136.00
12980	140	0.03	63	100	6	208.00
12981	152	0.02	63	110	3	136.00
12982	152	0.02	63	110	6	249.00
12983	160	0.02	63	120	3	146.00
12984	160	0.02	63	120	6	270.00
12985	180	0.02	63	130	3	174.00
12986	180	0.02	63	130	6	266.00
12987	203	0.02	63	150	1	68.00
12988	203	0.02	63	150	3	184.00
12989	254	0.01	50	180	1	95.00
12990	254	0.01	50	180	3	248.00
12991	305	0.01	50	220	1	110.00
12992	305	0.01	50	220	3	297.00
12993	355	0.01	40	260	1	131.00
12994	400	0.01	40	300	1	146.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PVC Spiral Tubing - light

#### Product specification

- Light design
- Good mechanical stability
- Resistant to weather and aging
- Hardly inflammable
- Antiadhesive surface

#### Technical specification

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** silver metallic
- **Temperature range:** -10 to +65 °C
- **Bending radius:** 1 - 1.5 x inside Ø
- **Weight:** 0.1 to 1.46 kg/m
- **Insert:** a steel wire spiral, PVC-coated, white
- **Design:** inside and outside corrugated



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Vacuum	Unit	Price
	mm	mm	bar	mbar	m	EURO
12682	10	15.6	0.5	350	5	90.00
12683	10	15.6	0.5	350	10	164.00

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Vacuum mbar	Unit m	Price EURO
12684	12	17.6	0.5	350	5	100.00
12685	12	17.6	0.5	350	10	182.00
12686	14	19.6	0.5	350	5	110.00
12687	14	19.6	0.5	350	10	202.00
12688	16	21.6	0.5	350	5	121.00
12689	16	21.6	0.5	350	10	223.00
12690	18	23.6	0.5	350	5	133.00
12691	18	23.6	0.5	350	10	241.00
12692	20	25.6	0.5	350	5	139.00
12693	20	25.6	0.5	350	10	254.00
12694	22	27.6	0.5	350	5	141.00
12695	22	27.6	0.5	350	10	259.00
12696	24	29.6	0.5	350	5	141.00
12697	24	29.6	0.5	350	10	259.00
12698	25	30.6	0.5	300	5	151.00
12699	25	30.6	0.5	300	10	279.00
12700	28	33.2	0.5	300	5	159.00
12701	28	33.2	0.5	300	10	292.00
12702	30	35.2	0.5	300	5	167.00
12703	30	35.2	0.5	300	10	305.00
12704	32	37.2	0.5	300	3	108.00
12705	32	37.2	0.5	300	5	164.00
12706	35	40.2	0.5	300	3	113.00
19021	35	40.2	0.5	300	5	174.00
19022	38	43.2	0.5	300	3	118.00
12707	38	43.2	0.5	300	5	185.00
12708	40	45.2	0.4	300	3	121.00
12709	40	45.2	0.4	300	5	187.00
12710	42	47.2	0.4	300	3	131.00
12711	42	47.2	0.4	300	5	197.00
12712	45	50.2	0.4	300	3	141.00
12713	45	50.2	0.4	300	5	215.00
12714	50	55.4	0.4	250	3	146.00
12715	50	55.4	0.4	250	5	223.00
12716	55	60.4	0.4	250	3	156.00
12717	55	60.4	0.4	250	5	241.00
12718	60	65.4	0.4	250	3	167.00
12719	60	65.4	0.4	250	5	254.00
12720	65	70.8	0.4	250	2	121.00
12721	65	70.8	0.4	250	3	167.00
12722	70	75.8	0.4	250	2	128.00
12723	70	75.8	0.4	250	3	177.00
12724	75	80.8	0.4	250	2	133.00
12725	75	80.8	0.4	250	3	185.00
12726	80	86.6	0.4	250	2	144.00
12727	80	86.6	0.4	250	3	197.00
12728	90	96.6	0.3	250	2	169.00
12729	90	96.6	0.3	250	3	231.00
12730	100	106.6	0.3	250	2	172.00
12731	100	106.6	0.3	250	3	238.00
12732	110	116.6	0.3	250	1	98.00
12733	120	126.6	0.3	250	1	116.00
12734	125	131.6	0.3	250	1	126.00
12735	150	157.7	0.2	120	1	141.00

<sup>1</sup> at +20 °C

## THOMAFLUID®-PVC Spiral Tubing - heavy

### Product specification

- Heavy design
- Good mechanical stability
- Resistant to weather and aging
- Hardly inflammable
- Antistatic surface

### Technical specification

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** grey
- **Temperature range:** -10 to +70 °C
- **Bending radius:** 1.5 - 2 x inside Ø
- **Weight:** 0.33 - 1.55 kg/m
- **Insert:** a steel wire spiral, PVC-coated, white
- **Design:** inside and outside corrugated



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Vacuum <sup>1</sup> mbar	Weight kg/m	Unit m	Price EURO
12736	20	26.4	1.8	900	0.33	2	100.00
12737	20	26.4	1.8	900	0.33	3	139.00
12738	30	37	1.5	800	0.49	2	128.00
12739	30	37	1.5	800	0.49	3	174.00
12740	32	39	1.5	800	0.52	2	131.00
12741	32	39	1.5	800	0.52	3	179.00
12742	40	47	1	600	0.65	1	80.00
12743	40	47	1	600	0.65	3	215.00
12744	50	58.7	0.8	450	0.79	1	100.00
12745	50	58.7	0.8	450	0.79	3	277.00
12746	60	68.7	0.8	450	0.94	1	116.00
12747	70	78.7	0.8	450	1.09	1	131.00
12748	80	88.7	0.8	450	1.25	1	149.00
12750	100	108.7	0.4	200	1.55	1	177.00

<sup>1</sup> at +20 °C

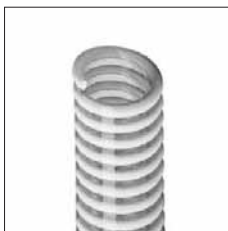
## THOMAFLUID®-PVC Spiral Industrial Suction and Pressure Tubing - light green

### Product specification

- Robust design with integrated PVC spiral

### Technical specification

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** light green
- **Temperature range:** -5 to +60 °C
- **Insert:** embedded rigid PVC spiral
- **Vacuum strength:** ID 25 - 100 mm 60 %; ID 110 mm 50 %
- **Design:** inside smooth, outside corrugated



Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12604	25	30	7	110	5	82.00
12605	25	30	7	110	10	144.00
12606	32	37.6	7	140	5	87.00
12607	32	37.6	7	140	10	159.00
12608	38	44.4	6	180	5	110.00
12609	38	44.4	6	180	10	200.00
12610	50	56.8	5	240	5	136.00
12611	50	56.8	5	240	10	251.00
12612	63	70	5	290	3	108.00
12613	63	70	5	290	6	192.00
12614	75	83	4	370	3	146.00
12615	75	83	4	370	6	269.00
12616	90	98.8	4	450	3	187.00
12617	90	98.8	4	450	6	341.00
12618	100	109.4	4	500	3	202.00
12619	100	109.4	4	500	6	407.00
12620	110	122.2	4	530	3	248.00
12621	110	122.2	4	530	5	381.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PVC Spiral Industrial Suction and Pressure Tubing - dark-green

#### Product specification

- Extremely heavy type with integrated PVC pressure spiral

#### Technical specification

- **Material:** PVC soft (polyvinyl chloride)
- **Colour:** dark-green
- **Temperature range:** -10 to +60 °C
- **Insert:** embedded rigid PVC pressure spiral
- **Vacuum strength:** ID 50 mm 99.9 %; ID 63 - 76 mm 90 %; ID 100 mm 85 %
- **Design:** inside smooth, outside corrugated



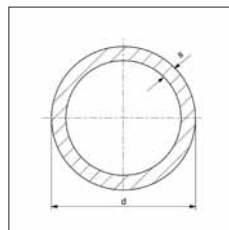
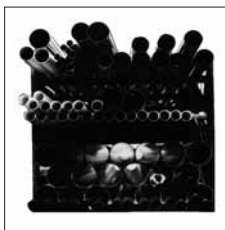
Item	Inside Ø	Outside Ø	Max. op. pressure <sup>1</sup>	Min. bending radius	Unit	Price
	mm	mm	bar	mm	m	EURO
12596	50	60	5	250	3	118.00
12597	50	60	5	250	5	177.00
12598	63	73	4.5	315	3	139.00
12599	63	73	4.5	315	5	213.00
12600	76	87	4	380	3	162.00
12601	76	87	4	380	5	233.00
12602	100	113	3	500	1	80.00
12603	100	113	3	500	3	215.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-PVC-U Pressure Pipe

#### Technical specification

- **Material:** rigid PVC (PVC-U); impact-resistant
- **Colour:** grey, according to RAL 7011
- **Max. operating pressure:** 10 bar and 16 bar respectively
- **Design:** pipe ends are smooth



Item	Outside Ø	Wall thickness	Max. op. pressure <sup>1</sup>	Length	Unit	Price
	mm	mm	bar	m	piece	EURO
350174	12	1.4	16	1	3	20.00
350160	12	1	10	1	3	18.00
350175	16	1.8	16	1	3	22.00
350161	16	1.2	10	1	3	20.00
350176	20	2.3	16	1	3	27.00
350162	20	1.5	10	1	3	26.00
350177	25	1.9	16	1	3	30.00
350163	25	1.5	10	1	3	28.00
350178	32	2.4	16	1	3	52.00
350164	32	1.8	10	1	3	40.00
350179	40	3	16	1	3	65.00
350165	40	1.9	10	1	3	52.00
350180	50	3.7	16	1	3	88.00
350166	50	2.4	10	1	3	66.00
350189	63	4.7	16	1	3	95.00
350181	12	1.4	16	2	1	18.00
350167	12	1	10	2	1	16.00
350182	16	1.8	16	2	1	20.00
350168	16	1.2	10	2	1	18.00
350183	20	2.3	16	2	1	23.00
350169	20	1.5	10	2	1	22.00
350184	25	1.9	16	2	1	25.00
350170	25	1.5	10	2	1	24.00

Item	Outside Ø mm	Wall thickness mm	Max. op. pressure <sup>1</sup> bar	Length m	Unit piece	Price EURO
350185	32	2.4	16	2	1	36.00
350171	32	1.8	10	2	1	34.00
350186	40	3	16	2	1	51.00
350172	40	1.9	10	2	1	36.00
350187	50	3.7	16	2	1	72.00
350173	50	2.4	10	2	1	52.00
350188	63	4.7	16	2	1	84.00

<sup>1</sup> at +20 °C

## SBR Tubing

### THOMAFLUID®-SBR/EPDM Double-Wall Jacket Process Water Tubing

#### Product specification

- Very high abrasion resistance
- Good mechanical properties
- Conveyance of cold process water at low pressure up to 12 bar

#### Technical specification

##### • Material:

Liner: SBR (styrene-butadiene rubber)

Jacket: SBR/EPDM

- **Colour:** inside black, outside red
- **Temperature range:** -20 to +70 °C
- **Insert:** one layer of synthetic fabric
- **Design:** inside and outside smooth



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12547	13	19	12	80	10	82.00
12548	13	19	12	80	20	149.00
12549	16	23	12	100	10	85.00
12550	16	23	12	100	20	156.00
12551	19	26	12	110	10	116.00
12552	19	26	12	110	20	213.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-SBR/NBR Antista Chemical and Compressed Air Tubing - High-Flexible

#### Application area

- Chemical production, process engineering, pharmaceutical technology, operating technology

#### Product specification

- Pressure and conveying tubing for liquid media and compressed air.
- Extremely pliable (flexible).
- Very good resistance to weather, good resistance to aging and cold.
- Good resistance to many alkalis, acids, and polar solvents, except to mineral oils.

#### Technical specification

##### • Material:

Liner: NBR/SBR

Jacket: SBR/NBR

- **Colour:** liner: black, smooth, antistatic, jacket: blue, smooth
- **Insert:** spiraled synthetic textile yarns
- **Temperature range:** -20 to +80 °C
- **Max. operating pressure:** 20 bar at +20 °C
- **Bursting pressure:** 60 bar at +20 °C
- **Leakage resistance:** <10<sup>6</sup> Ohm/m
- **Design:** inside and outside smooth



Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
339943	6	13	20	50	5	82.00
339944	6	12	20	50	15	206.00
339945	7	14	20	55	5	86.00
339946	7	14	20	55	15	216.00
339947	8	15	20	65	5	88.00
339948	8	15	20	65	15	220.00
339949	9	16	20	70	5	92.00
339950	9	16	20	70	15	232.00
339951	13	20	20	100	5	118.00
339952	13	20	20	100	15	296.00

<sup>1</sup> at +20 °C

### THOMAFLUID®-SBR Cable Protection Hose - Super Thin-Walled

#### Application area

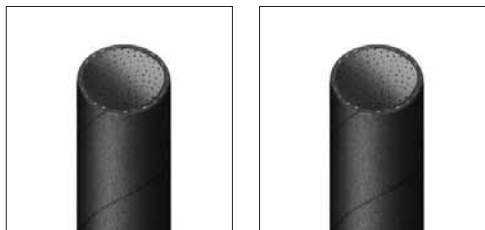
- For bundling of cables and tubes

#### Product specification

- Super thin-walled
- Very high abrasion resistance, very good mechanical properties
- Easy handling to protect cables

**Technical specification**

- **Material:** SBR (styrene-butadiene-rubber)
- **Colour:** liner: grey, smooth, with fabric insert, jacket: black, textile imprint
- **Temperature range:** -30 to +80 °C

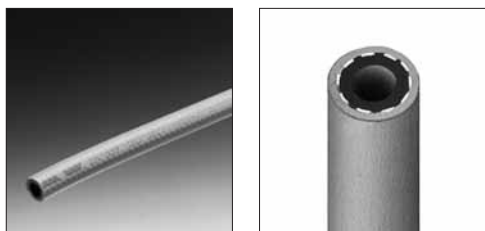


Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
340252	20	23	1.5	5	106.00
340253	20	23	1.5	10	188.00
340254	22	25	1.5	5	110.00
340255	22	25	1.5	10	198.00
340256	25	28	1.5	5	116.00
340257	25	28	1.5	10	208.00
340258	28	31	1.5	5	122.00
340259	28	31	1.5	10	218.00
340260	30	33	1.5	5	128.00
340261	30	33	1.5	10	230.00
340262	32	35	1.5	5	134.00
340263	32	35	1.5	10	242.00
340264	35	38	1.5	5	140.00
340265	35	38	1.5	10	254.00
340266	40	44	2	3	116.00
340267	40	44	2	5	174.00
340268	45	49	2	3	122.00
340269	45	49	2	5	184.00
340270	51	55	2	3	128.00
340271	51	55	2	5	194.00

**THOMAFLUID®-SBR/NBR Liquefied Gas Tubing for Propane and Butane**

**Product specification**

- Robust special tubing for liquefied gas due to compound NBR/SBR
- Typical use: LPG, MPS and methane
- Highest resistance to abrasion, as well as to weather and ozone due to the compound definition.



**Technical specification**

- **Material:** NBR/SBR Compound; NBR/SBR (butadiene-acrylonitrile-chloroprene rubber)
- **Colour:** inside black, outside orange
- **Temperature range:** -20 to +80 °C
- **Bursting pressure:** 60 bar
- **Insert:** synthetic fabrics
- **Design:** inside and outside smooth
- **Regulations:** according to EN 559 and ISO 3821

Item	Inside Ø mm	Outside Ø mm	Max. op. pressure <sup>1</sup> bar	Min. bending radius mm	Unit m	Price EURO
12751	6.4	12	20	60	5	75.00
12752	6.4	12	20	60	10	139.00
12753	6.4	12	20	60	15	192.00
12754	8	14	20	65	5	82.00
12755	8	14	20	65	10	151.00
12756	8	14	20	65	15	208.00

<sup>1</sup> at +20 °C

**THOMAFLUID®-SBR/EPDM Tubing for Autogenous Welding**

**Product specification**

- Highly flexible autogenous tubing
- Usable for small and portable equipment

**Technical specification**

- **Material:**  
Liner: SBR (styrene-butadiene rubber), smooth  
Jacket: SBR/EPDM, smooth
- **Colour:** inside black, outside red or blue
- **Temperature range:** -25 to +80 °C
- **Insert:** polyester fabric
- **Max. operating pressure:** 20 bar
- **Bursting pressure:** 60 bar
- **Regulations:** EN 559



Item	Inside Ø mm	Outside Ø mm	Colour	Unit m	Price EURO
49288	5	12	red	3	41.00
49289	5	12	red	9	103.00
49290	5	12	blue	3	41.00
49291	5	12	blue	9	103.00

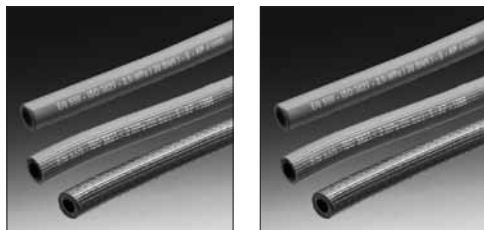
## THOMAFLUID®-SBR/NR Tubing for Autogenous Welding

### Product specification

- Robust tubing for autogenous welding and cutting processes.

### Technical specification

- **Material:**  
Liner: SBR/NR (styrene-butadiene rubber / natural rubber)  
Jacket: red, blue: SBR/NR; black: SBR/EPDM
- **Colour:** inside black, outside depending on gas type red, blue or black
- **Temperature range:** -20 to +80 °C
- **Max. operating pressure:** 20 bar at +20 °C
- **Bursting pressure:** 60 bar
- **Design:** inside and outside smooth
- **Marking:** red, blue: longitudinally ribbed
- **Regulations:** EN 559



Item	Inside Ø mm	Outside Ø mm	Colour	Gas type	Unit m	Price EURO
333947 <sup>1</sup>	6.4	13.3	red	combustible gases	5	54.00
333948 <sup>1</sup>	6.4	13.3	red	combustible gases	10	98.00
333949	6.4	13.3	blue	oxygen	5	60.00
333950	6.4	13.3	blue	oxygen	10	112.00
333951	6.4	13.3	black	non-combustible gases	5	68.00
333952	6.4	13.3	black	non-combustible gases	10	126.00
333953 <sup>1</sup>	8	15.3	red	combustible gases	5	54.00
333954 <sup>1</sup>	8	15.3	red	combustible gases	10	98.00
333955	8	15.3	blue	oxygen	5	60.00
333956	8	15.3	blue	oxygen	10	112.00
333957	8	15.3	black	non-combustible gases	5	68.00
333958	8	15.3	black	non-combustible gases	10	126.00
333959 <sup>1</sup>	10	17.3	red	combustible gases	5	54.00
333960 <sup>1</sup>	10	17.3	red	combustible gases	10	98.00
333961	10	17.3	blue	oxygen	5	60.00
333962	10	17.3	blue	oxygen	10	112.00
333963	10	17.3	black	non-combustible gases	5	68.00
333964	10	17.3	black	non-combustible gases	10	126.00

<sup>1</sup> except liquefied gases

## Silicone Tubing

### THOMAFLUID®-Silicone Pump Tubing Fitted with 2 Stoppers

#### Application area

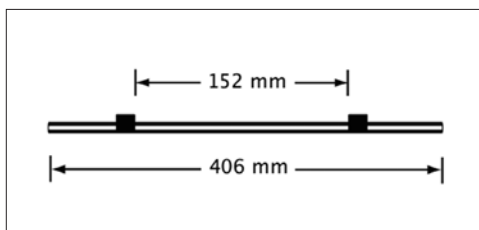
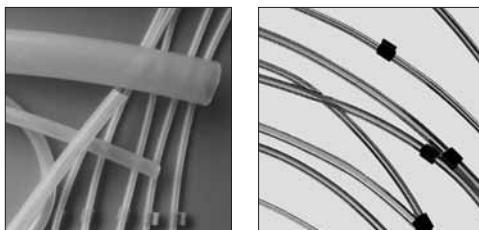
- For peristaltic pumps with tubing cassettes.

#### Product specification

- Fitted with two involved stoppers each for mounting in tubing cassettes; colour-coded for clearly organized use
- Application-oriented, precision adjusted inside diameters from 0.64 to 3.00 mm; total length 406 mm; distance between stoppers approx. 152 mm.

#### Technical specification

- **Material:** made of platinum-catalyzed silicone
- **Colour:** translucent
- **Shore hardness A:** 50° ±3° (DIN 53505)
- **Temperature range:** -51 to +238 °C
- **Tolerance:** DIN ISO 3302-1 E2
- **Regulations:** USP class VI; FDA 21 CFR 177.2600



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43758	0.64	2.46	0.91	orange/white	3	102.00
43759	0.76	2.44	0.84	black	3	102.00
43760	0.89	2.57	0.84	orange	3	102.00
43761	1.02	2.7	0.84	white	3	102.00
43762	1.14	2.82	0.84	red	3	102.00
43763	1.3	2.98	0.84	grey	3	102.00
43764	1.42	3.1	0.84	yellow	3	102.00
43765	1.52	3.2	0.84	yellow/blue	3	102.00
43766	1.65	3.33	0.84	blue	3	102.00
43767	1.75	3.43	0.84	green	3	102.00
43768	2.06	3.74	0.84	violet	3	102.00
43769	2.29	3.97	0.84	violet/black	3	102.00
43770	2.54	4.22	0.84	violet/orange	3	102.00
43771	2.79	4.47	0.84	violet/white	3	102.00
43772	3	4.8	0.84	green/white	3	102.00

## THOMAFLUID®-Silicone Pump Tubing Fitted with 3 Stoppers

### Application area

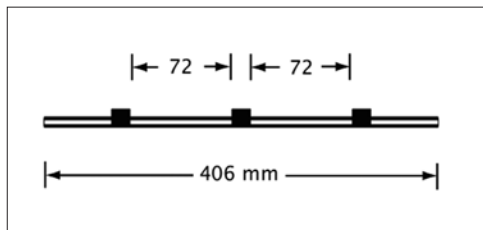
- For peristaltic pumps with mini tubing cassettes.

### Product specification

- Fitted with three involved stoppers each for mounting in mini tubing cassettes, double operating time due to twofold usability of the tubing; colour-coded for clearly organized use.
- Application-oriented, precision adjusted inside diameters from 0.64 to 2.79 mm; total length: 406 mm; distance between stoppers: approx. 72 mm.

### Technical specification

- **Material:** made of platinum-catalyzed silicone
- **Colour:** translucent
- **Shore hardness A:** 60° ±3° (DIN 53505)
- **Temperature range:** -51 to +238 °C
- **Tolerance:** DIN ISO 3302-1 E2
- **Regulations:** USP class VI and FDA 21 CFR 177.2600



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour code	Unit piece	Price EURO
43773	0.64	2.46	0.91	orange/white	3	117.00
43774	0.76	2.44	0.84	black	3	117.00
43775	0.89	2.57	0.84	orange	3	117.00
43776	1.02	2.7	0.84	white	3	117.00
43777	1.14	2.82	0.84	red	3	117.00
43778	1.3	2.98	0.84	grey	3	117.00
43779	1.42	3.1	0.84	yellow	3	117.00
43780	1.52	3.2	0.84	yellow/blue	3	117.00
43781	1.65	3.33	0.84	blue	3	117.00
43782	1.75	3.43	0.84	green	3	117.00
43783	2.06	3.74	0.84	violet	3	117.00
43784	2.29	3.97	0.84	violet/black	3	117.00
43785	2.54	4.22	0.84	violet/orange	3	117.00
43786	2.79	4.47	0.84	violet/white	3	117.00

## THOMAFLUID®-Silicone Micro-Spaghetti Tubing for Analytic Technology

### Product specification

- Exceptionally resistant to acids and alkaline and other solutions.
- Extruded from high quality, pure silicone.
- Permanent controls of the inside and outside diameters and the wall thickness ensure continuous performance.
- Physiologically harmless in every respect.

### Technical specification

- **Material:** Silicone (silicone rubber)
- **Colour:** transparent
- **Shore hardness A:** 62° ±5° (DIN 53505)
- **Temperature range:** -60 bis +200 °C, for a short time +250 °C
- **Density:** 1.14 g/cm³ (DIN 53749)
- **Tearing strength:** 11 N/mm² (DIN 53504 S1)
- **Elongation at break:** 385 % (DIN 53504 S1)
- **Tear propagation resistance:** 21 N/mm² (ASTM D 624 Die B)
- **Compression set:** 35 % (DIN 53517)
- **Dielectric strength:** ca. 29 KV/mm
- **Tolerance inside Ø:** up to 2 mm: ±0.15 mm; 2-5 mm: ±0.2 mm; 5-12 mm: ±0.3 mm
- **Tolerance wall thickness:** up to 3.5 mm: ±0.1 mm; 4-12 mm: ±0.15 mm
- **Regulations:** Bfr Class XV; FDA 21 CFR177.2600



Item	Inside Ø	Outside Ø	Wall thickness mm	Unit m	Price EURO
	mm	mm			
339043	0.635	2.464	0.914	5	81.00
339044	0.635	2.464	0.914	10	135.00
339045	0.762	2.438	0.838	5	81.00
339046	0.762	2.438	0.838	10	135.00
339047	0.889	2.565	0.838	5	81.00
339048	0.889	2.565	0.838	10	135.00
339049	1.016	2.692	0.838	5	81.00
339050	1.016	2.692	0.838	10	135.00
339051	1.143	2.819	0.838	5	81.00
339052	1.143	2.819	0.838	10	135.00
339053	1.295	2.972	0.838	5	81.00
339054	1.295	2.972	0.838	10	135.00
339055	1.422	3.099	0.838	5	81.00
339056	1.422	3.099	0.838	10	135.00
339057	1.524	3.2	0.838	5	81.00
339058	1.524	3.2	0.838	10	135.00
339059	1.651	3.327	0.838	5	81.00
339060	1.651	3.327	0.838	10	135.00
339061	1.854	3.531	0.838	5	81.00
339062	1.854	3.531	0.838	10	135.00
339063	2.057	3.734	0.838	5	81.00
339064	2.057	3.734	0.838	10	135.00
339065	2.286	3.962	0.838	5	81.00
339066	2.286	3.962	0.838	10	135.00
339067	2.54	4.216	0.838	5	81.00
339068	2.54	4.216	0.838	10	135.00
339069	2.794	4.47	0.838	5	81.00
339070	2.794	4.47	0.838	10	135.00

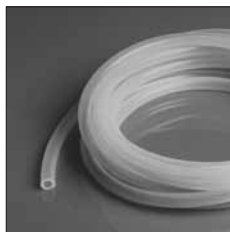
## THOMAFLUID®-Silicone Special Compound Analytical Tubing

### Product specification

- Injection-molded of especially high-grade silicone elastomer, annealed twice for 20 hrs at +20 °C in the rotary furnace.
- Absolutely homogenous quality paired with high flexibility.
- Physiologically safe in every respect.
- Excellent stability in heat and hot air.
- Highest flexibility in cold.
- Very good resistance to ozone, aging, and weather.
- Very good dielectric properties; tested especially for breakdown strength under wet conditions.
- Antiadhesive surface properties.
- High permeability to gas.
- Good radiation resistance.
- High electrical insulating capacity.
- High resistance to a wide spectrum of chemical compounds.

### Technical specification

- **Material:** Silicone (silicone rubber)
- **Colour:** transparent
- **Shore hardness A:** 60° ±5° (DIN 53505)
- **Temperature range:** -60 to +200 °C (Class H); for a short period +350 °C
- **Resistance to hot steam:** +140 °C
- **Sterilization:** steam (+136 °C)
- **Embrittlement temperature:** -65 °C
- **Density:** 1.19 g/cm<sup>3</sup>
- **Rebound elasticity:** 35 % (DIN 53505)
- **Elongation at break:** 300 % (DIN 53504 S2)
- **Dielectric strength:** approx. 18 KV/mm (VDE 0303)
- **Volume Resistivity:** 10<sup>15</sup> Ohm x cm/+20 °C (VDE 0303)
- **Dielectric constant:** 3.2/+25 °C/50 Hz (DIN 53482)
- **Tolerances inside Ø and wall thickness:**  
 from 0.2 - 2 mm ±0.15 mm  
 from 2.5 - 5 mm ±0.25 mm  
 from 5.5 - 12 mm ±0.3 mm  
 from 13 - 20 mm ±0.4 mm  
 from 22 - 30 mm ±0.6 mm  
 above ±0.8 mm



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
331473	0.2	0.4	0.1	5	68.00
331474	0.2	0.4	0.1	15	165.00
14164	0.3	0.5	0.1	5	26.00
14165	0.3	0.5	0.1	15	69.00
14166	0.3	0.7	0.2	5	28.00
14167	0.3	0.7	0.2	15	72.00
14170	0.5	0.7	0.1	5	26.00
14171	0.5	0.7	0.1	15	69.00

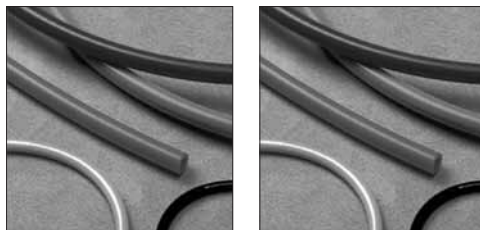
Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
14174	0.5	0.9	0.2	5	29.00
14175	0.5	0.9	0.2	15	75.00
14178	0.5	1.1	0.3	5	34.00
14179	0.5	1.1	0.3	15	81.00
14180	0.5	1.3	0.4	5	36.00
14181	0.5	1.3	0.4	15	87.00
14182	0.5	1.5	0.5	5	38.00
14183	0.5	1.5	0.5	15	91.00
14184	0.5	2.5	1	5	54.00
14185	0.5	2.5	1	15	146.00
9310816	0.5	3	1.25	3	34.00
9310826	0.5	3	1.25	25	271.00
14186	0.7	0.9	0.1	5	28.00
14187	0.7	0.9	0.1	15	73.00
14188	0.7	1.1	0.2	5	30.00
14189	0.7	1.1	0.2	15	76.00
14190	0.7	1.3	0.3	5	34.00
14191	0.7	1.3	0.3	15	85.00
14192	0.7	1.7	0.5	5	36.00
14193	0.7	1.7	0.5	15	98.00
14194	0.7	2.1	0.7	5	49.00
14195	0.7	2.1	0.7	15	131.00
14196	0.8	1.6	0.4	5	44.00
14197	0.8	1.6	0.4	15	116.00
14198	1	1.4	0.2	5	29.00
14199	1	1.4	0.2	15	77.00
14202	1	1.8	0.4	5	35.00
14203	1	1.8	0.4	15	95.00
14204	1	2	0.5	5	38.00
14205	1	2	0.5	15	102.00
14206	1	2.4	0.7	5	49.00
14207	1	2.4	0.7	15	133.00
14208	1.2	2	0.4	5	39.00
14209	1.2	2	0.4	15	105.00
14210	1.3	1.7	0.2	5	31.00
14211	1.3	1.7	0.2	15	82.00
14212	1.5	1.9	0.2	5	34.00
14213	1.5	1.9	0.2	15	93.00
14214	1.5	2.1	0.3	5	40.00
14215	1.5	2.1	0.3	15	107.00
14216	1.5	2.3	0.4	5	46.00
14217	1.5	2.3	0.4	15	126.00
14218	1.5	2.5	0.5	5	49.00
14219	1.5	2.5	0.5	15	141.00
14220	1.5	2.9	0.7	5	59.00
14221	1.5	2.9	0.7	15	159.00
14222	2	2.4	0.2	5	35.00
14223	2	2.4	0.2	15	94.00
14226	2	2.8	0.4	5	45.00
14227	2	2.8	0.4	15	123.00
14228	2	3.4	0.7	5	60.00
14229	2	3.4	0.7	15	181.00
14230	2	4	1	5	73.00
14231	2	4	1	15	201.00
14232	2.5	2.9	0.2	5	41.00



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Unit m	Price EURO
14233	2.5	2.9	0.2	15	110.00
14234	2.5	3.3	0.4	5	59.00
14235	2.5	3.3	0.4	15	158.00
14236	2.5	3.5	0.5	5	63.00
14237	2.5	3.5	0.5	15	166.00
14238	2.5	4.5	1	5	82.00
14239	2.5	4.5	1	15	225.00
14240	2.5	5.5	1.5	5	113.00
14241	2.5	5.5	1.5	15	302.00
14242	3	3.6	0.3	5	45.00
14243	3	3.6	0.3	15	114.00
14244	3.5	4.3	0.4	5	57.00
14245	3.5	4.3	0.4	15	154.00
14246	4	5.4	0.7	5	65.00
14247	4	5.4	0.7	15	177.00
14248	4	6	1	5	79.00
14249	4	6	1	15	216.00
14250	5	7	1	5	96.00
14251	5	7	1	15	262.00
14252	6	7	0.5	5	57.00
14253	6	7	0.5	15	154.00
14254	7	8	0.5	5	82.00
14255	7	8	0.5	15	223.00
14256	7	8.4	0.7	5	93.00
14257	7	8.4	0.7	15	254.00
14258	8	9	0.5	5	92.00
14259	8	9	0.5	15	246.00
14260	8	9.4	0.7	5	108.00
14261	8	9.4	0.7	15	292.00
14262	10	13	1.5	5	215.00
14263	10	13	1.5	15	553.00
14264	18	20	1	5	259.00
14265	18	20	1	15	678.00
14266	20	22	1	5	266.00
14267	20	22	1	15	698.00
14268	24	28	2	5	384.00
14269	24	28	2	15	967.00
14270	25	29	2	5	427.00
14271	25	29	2	15	1,097.00
14272	32	36	2	5	476.00
14273	32	36	2	15	1,189.00

**Technical specification**

- **Material:** silicone (silicone rubber)
- **Shore hardness A:** 60° ±5° (DIN 53505)
- **Temperature range:** -60 to +200 °C (Class H)
- **Sterilization:** steam (+140 °C)
- **Density:** 1.19 g/cm<sup>3</sup>
- **Compression set:** <40 % at +175 °C / 22 h (DIN 53517)
- **Elongation at break:** >300 % (DIN 53504 S2)
- **Dielectric strength:** approx. 18 KV/mm (VDE 0303)
- **Volume resistivity:** 10<sup>15</sup> Ohm x cm (VDE 0303)
- **Dielectric constant:** 3.0 / +25 °C / 50 Hz (DIN 53482)
- **Dielectric loss factor:** 30\*10<sup>-4</sup> to 250\*10<sup>-4</sup> (VDE 0303)
- **Tolerance inside Ø and wall thickness:** ±0.1 mm



Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
26519	0.3	0.5	0.1	blue	5	26.00
26520	0.3	0.5	0.1	blue	15	69.00
26521	0.3	0.5	0.1	brown	5	26.00
26522	0.3	0.5	0.1	brown	15	69.00
26523	0.3	0.5	0.1	yellow	5	26.00
26524	0.3	0.5	0.1	yellow	15	69.00
26525	0.3	0.5	0.1	grey	5	26.00
26526	0.3	0.5	0.1	grey	15	69.00
26527	0.3	0.5	0.1	green	5	26.00
26528	0.3	0.5	0.1	green	15	69.00
26529	0.3	0.5	0.1	pink	5	26.00
26530	0.3	0.5	0.1	pink	15	69.00
26531	0.3	0.5	0.1	red	5	26.00
26532	0.3	0.5	0.1	red	15	69.00
26533	0.3	0.5	0.1	black	5	26.00
26534	0.3	0.5	0.1	black	15	69.00
26535	0.3	0.5	0.1	violet	5	26.00
26536	0.3	0.5	0.1	violet	15	69.00
26537	0.3	0.5	0.1	white	5	26.00
26538	0.3	0.5	0.1	white	15	69.00
26539	0.3	0.5	0.1	orange	5	26.00
26540	0.3	0.5	0.1	orange	15	69.00
26541	0.3	0.7	0.2	blue	5	28.00
26542	0.3	0.7	0.2	blue	15	72.00
26543	0.3	0.7	0.2	brown	5	28.00
26544	0.3	0.7	0.2	brown	15	72.00
26545	0.3	0.7	0.2	yellow	5	28.00
26546	0.3	0.7	0.2	yellow	15	72.00
26547	0.3	0.7	0.2	grey	5	28.00
26548	0.3	0.7	0.2	grey	15	72.00
26549	0.3	0.7	0.2	green	5	28.00
26550	0.3	0.7	0.2	green	15	72.00

**THOMAFLUID®-Silicone Analytical Tubing - coloured**

**Application area**

- Insulation of wires and litz wires in the areas of electronic engineering, electric machine construction and apparatus engineering (especially at high frequency and high temperatures).

**Product specification**

- The elastomer forms, in case of fire, an insulating ash consisting of silicon oxide without separating aggressive or corrosive gases.
- The tubing can be laid without sticking together due to talcing.
- Resistant to weather and aging, UV- and ozone-resistant.
- Permanently elastic at high and low temperatures.
- Physiologically safe.
- Without plasticizers.

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
26551	0.3	0.7	0.2	pink	5	28.00
26552	0.3	0.7	0.2	pink	15	72.00
26553	0.3	0.7	0.2	red	5	28.00
26554	0.3	0.7	0.2	red	15	72.00
26555	0.3	0.7	0.2	black	5	28.00
26556	0.3	0.7	0.2	black	15	72.00
26557	0.3	0.7	0.2	violet	5	28.00
26558	0.3	0.7	0.2	violet	15	72.00
26559	0.3	0.7	0.2	white	5	28.00
26560	0.3	0.7	0.2	white	15	72.00
26561	0.3	0.7	0.2	orange	5	28.00
26562	0.3	0.7	0.2	orange	15	72.00
26563	0.5	0.7	0.1	blue	5	26.00
26564	0.5	0.7	0.1	blue	15	69.00
26565	0.5	0.7	0.1	brown	5	26.00
26566	0.5	0.7	0.1	brown	15	69.00
26567	0.5	0.7	0.1	yellow	5	26.00
26568	0.5	0.7	0.1	yellow	15	69.00
26569	0.5	0.7	0.1	grey	5	26.00
26570	0.5	0.7	0.1	grey	15	69.00
26571	0.5	0.7	0.1	green	5	26.00
26572	0.5	0.7	0.1	green	15	69.00
26573	0.5	0.7	0.1	pink	5	26.00
26574	0.5	0.7	0.1	pink	15	69.00
26575	0.5	0.7	0.1	red	5	26.00
26576	0.5	0.7	0.1	red	15	69.00
26577	0.5	0.7	0.1	black	5	26.00
26578	0.5	0.7	0.1	black	15	69.00
26579	0.5	0.7	0.1	violet	5	26.00
26580	0.5	0.7	0.1	violet	15	69.00
26581	0.5	0.7	0.1	white	5	26.00
26582	0.5	0.7	0.1	white	15	69.00
26583	0.5	0.7	0.1	orange	5	26.00
26584	0.5	0.7	0.1	orange	15	69.00
26585	0.5	0.9	0.2	blue	5	29.00
26586	0.5	0.9	0.2	blue	15	75.00
26587	0.5	0.9	0.2	brown	5	29.00
26588	0.5	0.9	0.2	brown	15	75.00
26589	0.5	0.9	0.2	yellow	5	29.00
26590	0.5	0.9	0.2	yellow	15	75.00
26591	0.5	0.9	0.2	grey	5	29.00
26592	0.5	0.9	0.2	grey	15	75.00
26593	0.5	0.9	0.2	green	5	29.00
26594	0.5	0.9	0.2	green	15	75.00
26595	0.5	0.9	0.2	pink	5	29.00
26596	0.5	0.9	0.2	pink	15	75.00
26597	0.5	0.9	0.2	red	5	29.00
26598	0.5	0.9	0.2	red	15	75.00
26599	0.5	0.9	0.2	black	5	29.00
26600	0.5	0.9	0.2	black	15	75.00
26601	0.5	0.9	0.2	violet	5	29.00
26602	0.5	0.9	0.2	violet	15	75.00
26603	0.5	0.9	0.2	white	5	29.00
26604	0.5	0.9	0.2	white	15	75.00
26605	0.5	0.9	0.2	orange	5	29.00

Item	Inside Ø mm	Outside Ø mm	Wall thickness mm	Colour	Unit m	Price EURO
26606	0.5	0.9	0.2	orange	15	75.00
26607	0.7	0.9	0.1	blue	5	28.00
26608	0.7	0.9	0.1	blue	15	73.00
26609	0.7	0.9	0.1	brown	5	28.00
26610	0.7	0.9	0.1	brown	15	73.00
26611	0.7	0.9	0.1	yellow	5	28.00
26612	0.7	0.9	0.1	yellow	15	73.00
26613	0.7	0.9	0.1	grey	5	28.00
26614	0.7	0.9	0.1	grey	15	73.00
26615	0.7	0.9	0.1	green	5	28.00
26616	0.7	0.9	0.1	green	15	73.00
26617	0.7	0.9	0.1	pink	5	28.00
26618	0.7	0.9	0.1	pink	15	73.00
26619	0.7	0.9	0.1	red	5	28.00
26620	0.7	0.9	0.1	red	15	73.00
26621	0.7	0.9	0.1	black	5	28.00
26622	0.7	0.9	0.1	black	15	73.00
26623	0.7	0.9	0.1	violet	5	28.00
26624	0.7	0.9	0.1	violet	15	73.00
26625	0.7	0.9	0.1	white	5	28.00
26626	0.7	0.9	0.1	white	15	73.00
26627	0.7	0.9	0.1	orange	5	28.00
26628	0.7	0.9	0.1	orange	15	73.00
26629	0.7	1.1	0.2	blue	5	30.00
26630	0.7	1.1	0.2	blue	15	76.00
26631	0.7	1.1	0.2	brown	5	30.00
26632	0.7	1.1	0.2	brown	15	76.00
26633	0.7	1.1	0.2	yellow	5	30.00
26634	0.7	1.1	0.2	yellow	15	76.00
26635	0.7	1.1	0.2	grey	5	30.00
26636	0.7	1.1	0.2	grey	15	76.00
26637	0.7	1.1	0.2	green	5	30.00
26638	0.7	1.1	0.2	green	15	76.00
26639	0.7	1.1	0.2	pink	5	30.00
26640	0.7	1.1	0.2	pink	15	76.00
26641	0.7	1.1	0.2	red	5	30.00
26642	0.7	1.1	0.2	red	15	76.00
26643	0.7	1.1	0.2	black	5	30.00
26644	0.7	1.1	0.2	black	15	76.00
26645	0.7	1.1	0.2	violet	5	30.00
26646	0.7	1.1	0.2	violet	15	76.00
26647	0.7	1.1	0.2	white	5	30.00
26648	0.7	1.1	0.2	white	15	76.00
26649	0.7	1.1	0.2	orange	5	30.00
26650	0.7	1.1	0.2	orange	15	76.00

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