

AP-Tube PTFE

PTFE tubing with low friction coefficients and high mechanical strength at high temperatures.

flame retardant | food approved | spiral-free | metal-free | resistant to chemicals

Product Details

Key facts

- Product Advantages: heat- and steam-resistant material, non-toxic, physiologically harmless, material with excellent non-stick properties, material is non-stick and therefore easy to clean, USP Class VI compliant product types available, food compliant (FDA/EU...) depending on the product type, suitable as a thermal and electrical insulator in electronic applications, good weldability, depending on product type, tubes are autoclavable or steam sterilisable

Construction / Material

- Type of construction: extruded hose without metal spiral
- Material of the wall: fully fluorinated plastic PTFE (polytetrafluoroethylene), sintered material
- Specifications of the wall: non-flammable (UL 94: V0)

Properties

- Chemical Properties: good resistance to solvents, good UV resistance, weather-resistant, free from paint wetting impairment substances (LABS), chemical inertness, good resistance to aggressive chemicals
- Mechanical Properties: very high mechanical strength and surface hardness, high resistance to stress cracking, very low sliding and static friction expressed by a low coefficient of friction, lowest coefficient of friction of all fluoroplastics
- Physical Properties: low permeation, low surface energy, good dielectric properties
- Colour: other colours available according to the RAL colour chart, naturally milky white, translucent
- Other: resistance to harsh environment

Operating Temperature

- Temperature Range: -200 to 260 °C

Delivery Information

- Delivery, type of production: coils 50/100 m, cut lengths, ppools, lengths on request, wide range of standard dimensions available from stock, larger dimensions are supplied in rolls as standard, other dimensions or tolerances available at short notice on request, tubes in accordance with AWG standard (American Wire Gauge), sizes AWG 30 to AWG 10, supplied on plastic spools, we generally supply hoses with an external diameter of less than 2,00 mm on plastic reels

Application Areas

- Areas of application: Automotive, Chemistry, Industry, Painting Technology, Food & Pharma, aviation technology, Plant & Mechanical Engineering, Medical Technology

Article Variants

Article number	Nominal Size (DN) in mm	Inner diameter in mm	Outer diameter in mm	Bending radius* in mm	Length (standard lengths available for order) in m	Wall thickness in mm	Wall thickness tolerance in mm	tolerance inner diameter in mm	Theoretical burst pressure in bar
/	0.2	0.2	0.4	2		0.1	0.1	+/-0.05	81.0
/	0.3	0.3	0.5	3		0.1	0.1	+/-0.05	64.8
/	0.4	0.4	0.6	4		0.1	0.1	+/-0.05	54.0
/	0.5	0.5	0.7	5		0.1	0.1	+/-0.05	46.3
/	0.6	0.6	0.8	7		0.1	0.1	+/-0.05	40.5
/	0.7	0.7	0.9	9		0.1	0.1	+/-0.05	36.0
/	0.8	0.8	1.0	10		0.1	0.1	+/-0.05	32.4
/	0.9	0.9	1.1	13		0.1	0.1	+/-0.05	29.5
/	1.0	1.0	1.2	15		0.1	0.1	+/-0.05	27.0
011608	1.0	1.0	2.0	8		0.5	0.5	+/-0.10	81.0
009959	1.0	1.0	3.0	9		1.0	1.0	+/-0.10	108.0
/	1.5	1.5	2.5	13		0.5	0.5	+/-0.10	64.8
009831	1.5	1.5	3.0	12		0.75	0.8	+/-0.10	81.0
009962	2.0	2.0	3.0	18		0.5	0.5	+/-0.10	54.0
009834	2.0	2.0	4.0	16		1.0	1.0	+/-0.10	81.0
/	2.5	2.5	3.5	25		0.5	0.5	+/-0.10	46.3
/	2.5	2.5	4.5	21		1.0	1.0	+/-0.10	72.0
009967	3.0	3.0	5.0	25		1.0	1.0	+/-0.10	64.8
009968	3.0	3.0	6.0	24		1.5	1.5	+/-0.10	81.0
011180	4.0	4.0	5.0	50		0.5	0.5	+/-0.15	32.4
009965	4.0	4.0	6.0	36		1.0	1.0	+/-0.15	54.0
009833	5.0	5.0	6.0	72		0.5	0.5	+/-0.15	27.0
011042	5.0	5.0	7.0	49		1.0	1.0	+/-0.15	46.3
009836	6.0	6.0	8.0	64		1.0	1.0	+/-0.15	40.5
009976	6.0	6.0	9.0	54		1.5	1.5	+/-0.20	54.0
/	7.0	7.0	9.0	81		1.0	1.0	+/-0.15	36.0
/	7.0	7.0	10.0	67		1.5	1.5	+/-0.20	48.6
009838	8.0	8.0	10.0	100		1.0	1.0	+/-0.15	32.4
009991	9.0	9.0	11.0	121		1.0	1.0	+/-0.20	29.5

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009969	9.0	9.0	12.0	96		1.5	1.5	+/-0.20	40.5
009971	10.0	10.0	12.0	144		1.0	1.0	+/-0.20	27.0

The minimum bending radius specifications for our tubings are partly theoretical and represent typical values at 23 °C. The specifications are provided for comparison purposes only and do not represent guaranteed properties. They must be verified by the user.
The burst pressure specifications for our tubings are partly theoretical and are based on the unit bar at ** The burst pressure specifications for our tubings are partly theoretical and are based on the unit bar at a room temperature of 23 °C. The values are used for product comparison purposes, but do not represent guaranteed properties of our products. Pressure resistance decreases as temperatures rise. For safe operation, we recommend maintaining at least three times the safety margin (max. operating pressure = ambient pressure at the corresponding operating temperature /3).

Delivery Variants

Available in other lengths, other nominal diameters, with customer-specific customer-specific imprint.

Disposal instructions

After use, the product must be disposed of in accordance with the legal regulations applicable in the user's region (in Germany in accordance with the applicable Waste Catalogue Ordinance (AVV)).



Individual consultation

We offer consultation by phone: **+49 209 97077 153**

Product requests via: **https://www.masterflex.es/**

Headquarters for your sales area

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