

# AP-Tube PVDF

**PVDF tubing for a temperature range from -50 °C to +150 °C. Excellent resistance to high-energy radiation.**

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

## Product Details

### Key facts

- Product Advantages: heat- and steam-resistant material, non-toxic, physiologically harmless, high compressive strength at room temperature, material with excellent non-stick properties, material is non-stick and therefore easy to clean, food compliant (FDA/EU...) depending on the product type, antistatic and electrically conductive in accordance with ATEX 94/9/EC (depending on the product type), good weldability, tubes are autoclavable or steam sterilisable, best mechanical properties of all fluoroplastics

### Construction / Material

- Type of construction: extruded hose without metal spiral
- Execution of the wall: made of highly abrasion-resistant material
- Material of the wall: partially fluorinated plastic PVDF (polyvinylidene fluoride)
- 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: high mechanical strength and impact resistance, very low sliding and static friction expressed by a low coefficient of friction, best mechanical properties of all fluoroplastics, high resistance to stress cracking

- Physical Properties: low permeation, low surface energy, excellent resistance to high-energy radiation, good dielectric properties
- Pressure Resistance: very pressure resistant
- Colour: transparent to translucent (depending on wall thickness), other colours available according to the RAL colour chart
- Other: resistance to harsh environment

### Operating Temperature

- Temperature Range: -50 to 150 °C

### Delivery Information

- Delivery, type of production: only a few standard products in stock, almost all customer-specific dimensions can be realised, special sizes can be produced with minimum production quantities of several hundred metres, available in customised ring lengths, wound on spools or in sections

### Application Areas

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

## 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 | Tolerance inner & outer diameter in mm | Theoretical burst pressure in bar |
|---|---|---|---|---|---|---|---|---|
| 010241 | 4 | 4 | 6 | 47 | | 1 | +/-0.10 | 63.0 |
| 010248 | 6 | 6 | 8 | 84 | | 1 | +/-0.10 | 48.0 |
| / | 8 | 8 | 10 | 132 | | 1 | +/-0.10 | 37.0 |

Data sheet PVDF hoses
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 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

**Masterflex SE**

Willy-Brandt-Allee 300
45891 Gelsenkirchen
Germany