



# AP-Tube ETFE

ETFE tubings for a wide range of industrial applications. Better mechanical properties and less deformation under load compared with fully fluorinated types

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, food compliant (FDA/EU...) depending on the product type, good weldability, tubes are autoclavable or steam sterilisable

### Construction / Material

- Type of construction: extruded hose without metal spiral
- Material of the wall: partially fluorinated plastic ETFE (ethylene tetrafluoroethylene)
- 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), low permeation, 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 surface energy, 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: -100 to 150 °C
- short-term maximum temperature: without load up to 190 °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, packaging in defined ring lengths, wound on spools or in cut lengths

### Application Areas

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

## 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 |
|---|---|---|---|---|---|---|---|---|
| / | 4 | 4 | 6 | 41 | | 1 | +/- 0.10 | 58.3 |
| 009190 | 6 | 6 | 8 | 74 | | 1 | +/- 0.10 | 43.2 |
| / | 8 | 8 | 10 | 114 | | 1 | +/- 0.10 | 34.4 |

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: **+46 300 1717 0**

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

## Headquarters for your sales area

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