

## Plastic tubing PFAN

**FESTO**



## Characteristics

### At a glance



Particularly resistant to chemicals, cleaning processes, extreme temperatures and pressure. Perfect for use in the food industry, e.g. in meat processing.

- Perfluoroalkoxyalkane
- Pneumatic tubing with resistance to high temperatures and chemicals
- For food-safe grade, see [www.festo.com/certificates/PFAN](http://www.festo.com/certificates/PFAN)
- High resistance to chemicals, microbes, UV radiation, hydrolysis and stress cracks
- Operating medium: compressed air, vacuum, water

### Diagrams

Further information → [pfan](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

### Pipe/tubing O.D. x wall thickness

For standard O.D. tubing, the outside diameter of the tube and the wall thickness are given as the tube size.

### Packaging unit [m]

Standard: 50 m

## Type code

| 001  | Series         |
|------|----------------|
| PFAN | Plastic tubing |

| 003 | Colour  |
|-----|---------|
| NT  | Natural |

| 002     | Pipe/tubing O.D. x wall thickness |
|---------|-----------------------------------|
| 3x0,5   | 3x0.5 mm                          |
| 4x0,75  | 4x0.75 mm                         |
| 6x1     | 6x1 mm                            |
| 8x1,25  | 8x1.25 mm                         |
| 10x1,5  | 10x1.5 mm                         |
| 12x1,75 | 12x1.75 mm                        |

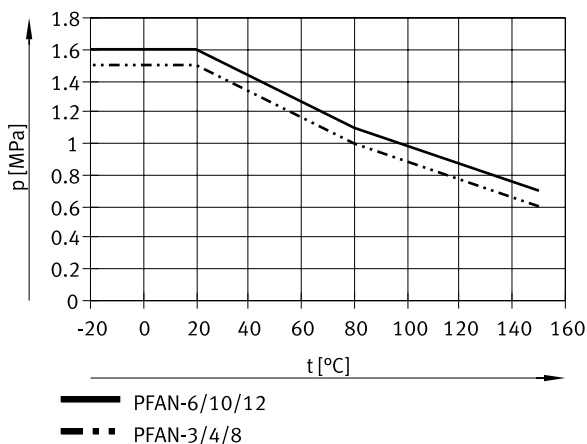
Datasheet

| Operating and environmental conditions        |  |  |  |  |                                  |   |
|---|--|--|--|--|----------------------------------|---|
| Outside diameter                              | 3 mm   | 4 mm   | 6 mm   | 8 mm   | 10 mm                            | 12 mm   |
| Inside diameter                               | 2.3 mm   | 2.9 mm   | 4 mm   | 5.9 mm   | 7 mm                             | 8.4 mm  |
| Pneumatic connection                          | For push-in connector outside diameter of 3 mm<br>For barbed fitting inside diameter of 2 mm | For push-in connector O.D. 4 mm<br>For barbed fitting I.D. 3 mm with union nut<br>For barbed fitting I.D. 3 mm | For push-in connector O.D. 6 mm<br>For barbed fitting I.D. 4 mm with union nut<br>For barbed fitting I.D. 4 mm | For push-in connector O.D. 8 mm<br>For barbed fitting inside diameter of 6 mm with union nut<br>For barbed fitting inside diameter of 6 mm | For push-in connector O.D. 10 mm | For push-in connector outside diameter of 12 mm |
| Flow-relevant bending radius                  | 30 mm  | 37 mm  | 50 mm  | 110 mm   | 140 mm                           | 165 mm  |
| Min. bending radius                           | 10 mm  | 11 mm  | 12 mm  | 25 mm  | 22 mm                            | 29 mm   |
| Temperature-dependent operating pressure      | -0.095 ... 1.5 MPa   |  | -0.095 ... 1.6 MPa   |  | -0.095 ... 1.6 MPa               |   |
| Temperature-dependent operating pressure      | -0.95 ... 15 bar   |  | -0.95 ... 16 bar   |  | -0.95 ... 16 bar                 |   |
| Temperature-dependent operating pressure      | -13.775 ... 217.5 psi  |  | -13.775 ... 232 psi  |  | -13.775 ... 232 psi              |   |
| Operating pressure complete temperature range | -0.095 ... 0.6 MPa   |  | -0.095 ... 0.7 MPa   |  | -0.095 ... 0.7 MPa               |   |
| Operating pressure complete temperature range | -0.95 ... 6 bar  |  | -0.95 ... 7 bar  |  | -0.95 ... 7 bar                  |   |
| Operating pressure complete temperature range | -13.775 ... 87 psi   |  | -13.775 ... 101.5 psi  |  | -13.775 ... 101.5 psi            |   |
| Note on operating pressure                    | Water: max. 0.6 MPa at 0 - 85°C<br>Water vapour: 0 – 0.15 MPa, 0 – 1.5 bar, 0 – 22 psi       |  |  |  |                                  |   |
| Operating medium <sup>1)</sup>                | Compressed air to ISO 8573-1:2010 [7:-:-]<br>Water (liquid, ice-free)<br>Water vapour        |  |  |  |                                  |   |
| Note on temperature of medium                 | Water vapour: max. 120°C   |  |  |  |                                  |   |
| Suitable for use with food <sup>2)</sup>      | See supplementary material information, See declaration of conformity                        |  |  |  |                                  |   |
| Ambient temperature                           | -20 ... 150°C  |  |  |  |                                  |   |
| Fire test material                            | UL94 V-0   |  |  |  |                                  |   |
| Approval                                      | –  |  |  |  |                                  |   |

1) More information [www.festo.com/catalogue/pfan](http://www.festo.com/catalogue/pfan) → Support/Downloads.

2) More information [www.festo.com/catalogue/pfan](http://www.festo.com/catalogue/pfan) → Support/Downloads.

Operating pressure p as a function of temperature t




## Datasheet

| Materials                       |  |
|---------------------------------|--|
| Shore hardness                  | D 60 +5  |
| Material tubing                 | PFA  |
| Note on materials <sup>1)</sup> | RoHS-compliant   |
| LABS (PWIS) conformity          | VDMA24364-B2-L   |
| Cleanroom class                 | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |
| Instructions on use             | Tubing without printing  |

1) Tubing without printing

## Ordering data

| Ordering data  |                  |                                  |                                    |         |                |                        |
|--|------------------|----------------------------------|------------------------------------|---------|----------------|------------------------|
|  | Outside diameter | Packaging unit [m] <sup>1)</sup> | Product weight according to length | Colour  | Part no.       | Type                   |
|  | 3 mm             | Standard                         | 0.007 kg/m                         | Natural | <b>8061167</b> | <b>PFAN-3X0,5-NT</b>   |
|  | 4 mm             |                                  | 0.012 kg/m                         |         | <b>197061</b>  | <b>PFAN-4X0,75-NT</b>  |
|  | 6 mm             |                                  | 0.034 kg/m                         |         | <b>197062</b>  | <b>PFAN-6X1-NT</b>     |
|  | 8 mm             |                                  | 0.049 kg/m                         |         | <b>197063</b>  | <b>PFAN-8X1,25-NT</b>  |
|  | 10 mm            |                                  | 0.087 kg/m                         |         | <b>197064</b>  | <b>PFAN-10X1,5-NT</b>  |
|  | 12 mm            |                                  | 0.125 kg/m                         |         | <b>197065</b>  | <b>PFAN-12X1,75-NT</b> |

1) Standard: 50 m