# Fluoropolymer Tubing – FEP

**FEP** (fluorinated ethylene propylene) tubing is a **robust engineering fluoropolymer** which provides excellent fluid visibility and is perfect for flow control monitoring.

## Product Advantages

**Flow Control**
- Transparent
- Flexible and non-flammable material
- Resistant to nearly all chemicals and solvents

**Tried-&-Tested Properties**
- Excellent transmission of UV light
- Low friction coefficient
- Food-grade material
- Low permeability
- Easily weldable
- Silicone-free

**Applications**
- Instrumentation
- Food Process
- UV
- Gas Sampling
- Chemical
- Temperature Cycling
- Laboratory

## Technical Characteristics

| | |
|---|---|
| **Compatible Fluids** | Industrial fluids |
| **Working Pressure** | 0 to 28 bar |
| **Working Temperature** | -40°C to +150°C |
| **Component Materials** | Fluorinated ethylene propylene (pure) |

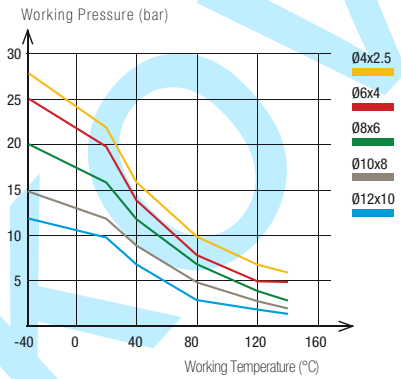
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

**Regulations**

**Food**
FDA: 21 CFR 177.1550
RG: 1935/2004

**Industrial**
UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

**Performance of FEP Tubing**




| Tube O.D. | Tube O.D. Tolerance |
|---|---|
| 4 mm | +0.05 / -0.05 |
| 6 to 10 mm | +0.07 / -0.07 |
| 12 mm | +0.10 / -0.10 |

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

**Packaging**
Tubepack®: 5 m, 25 m, 100 m

## 1005T Fluoropolymer (FEP) Tubing — Tubepack® 5 m

| O.D. (mm) | I.D. (mm) | R | Clear | kg |
|---|---|---|---|---|
| 4 | 2.5 | 40 | 1005T04 00 25 | 0.155 |
| 6 | 4 | 50 | 1005T06 00 | 0.250 |
| 8 | 6 | 70 | 1005T08 00 | 0.385 |
| 10 | 8 | 120 | 1005T10 00 | 0.524 |
| 12 | 10 | 180 | 1005T12 00 | 0.547 |

## 1025T Fluoropolymer (FEP) Tubing — Tubepack® 25 m

| O.D. (mm) | I.D. (mm) | R | Clear | kg |
|---|---|---|---|---|
| 4 | 2.5 | 40 | 1025T04 00 25 | 0.506 |
| 6 | 4 | 50 | 1025T06 00 | 1.025 |
| 8 | 6 | 70 | 1025T08 00 | 1.431 |
| 10 | 8 | 120 | 1025T10 00 | 1.693 |
| 12 | 10 | 180 | 1025T12 00 | 1.913 |

## Related Products

Parker Legris stainless steel fittings are perfectly suited for use with fluoropolymer tubing (PFA, FEP).

**Push-In Fittings**

**LF 3800** P. 1-77

**LF 3900** P. 1-77

**Compression Fittings**

**Stainless Steel** P. 5-31

# Fluoropolymer Tubing - PFA

Parker Legris **PFA** (perfluoroalkoxy) tubing offers **10 times greater durability** than other fluoropolymer tubings (PTFE, FEP and PVDF) under severe chemical and mechanical conditions. This tubing range is available in **three material grades**, offering perfect compatibility with all applications, even in extreme environments.

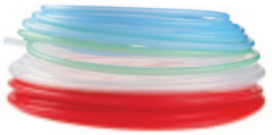
## Product Advantages

**Great Versatility**

- Exceptional chemical inertia
- A flexible alternative to stainless steel tubing
- Broad range of working temperatures, from cryogenic to extreme heat
- Non-stick properties allowing conveyance of many fluids & gases
- Outstanding resistance to ageing
- Fluoropolymer with the lowest permeability
- Non-flammable
- UV-transparent
- Tube marking on request
- Silicone-free

**Three Material Grades**

- Clear High Purity PFA: to cover all applications, including those requiring maximum mechanical resistance
- Coloured PFA: for circuit identification
- Black Antistatic PFA: eliminates all risk of electrostatic discharge



**Applications**

Food-Process
Fuel Cells
Electrical/Electronics
Aircraft
Oil/Gas Industry
Pharmaceutical
Medical
Chemical
Clean Rooms

## Technical Characteristics

| | |
|---|---|
| **Compatible Fluids** | Medical, bio-compatible, food process, gas, compressed air |
| **Working Pressure** | Vacuum to 36 bar |
| **Working Temperature** | -196°C to +260°C |
| **Component Materials** | Perfluoroalkoxy<br>• High Purity PFA<br>• Translucent coloured PFA<br>• Antistatic PFA |

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

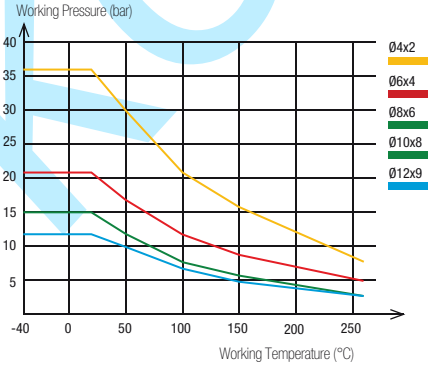
**Regulations**

**Medical**
USP: Class VI (A)
External communication devices

**Industrial**
UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG:1907/2006 (REACH)
DI: 94/09/EC (ATEX, black tubing)

**Food Industry**
FDA: 21 CFR 177.1550
(clear, translucent coloured)
RG: 1935/2004
NSF 51 (material)

**Performance of PFA Tubing**




To calculate burst pressure, the values in this graph should be multiplied by 3.

| Tube O.D. | Tube O.D. Tolerance |
|---|---|
| 4 to 8 mm | +0.10 / -0.10 |
| 10 to 12 mm | +0.15 / -0.15 |

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100.

**Packaging**
Tubepack®: 10 m, 50 m, 100 m

## 1010T..P Fluoropolymer (PFA) Tubing — Tubepack® 10 m

| O.D. (mm) | I.D. (mm) | R | Clear | crystal | crystal | crystal | kg |
|---|---|---|---|---|---|---|---|
| 4 | 2 | 12 | 1010T04P00 | 1010T04P12 | 1010T04P13 | 1010T04P14 | 0.087 |
| 6 | 4 | 34 | 1010T06P00 | 1010T06P12 | 1010T06P13 | 1010T06P14 | 0.237 |
| 8 | 6 | 60 | 1010T08P00 | 1010T08P12 | 1010T08P13 | 1010T08P14 | 0.410 |
| 10 | 8 | 95 | 1010T10P00 | 1010T10P12 | 1010T10P13 | 1010T10P14 | 0.723 |
| 12 | 9 | 120 | 1010T12P00 | 1010T12P12 | 1010T12P13 | 1010T12P14 | 1.148 |

## 1050T..P Fluoropolymer (PFA) Tubing — Tubepack® 50 m

| O.D. (mm) | I.D. (mm) | R | Clear | crystal | crystal | crystal | kg |
|---|---|---|---|---|---|---|---|
| 4 | 2 | 12 | 1050T04P00 | 1050T04P12 | 1050T04P13 | 1050T04P14 | 0.435 |
| 6 | 4 | 34 | 1050T06P00 | 1050T06P12 | 1050T06P13 | 1050T06P14 | 1.185 |
| 8 | 6 | 60 | 1050T08P00 | 1050T08P12 | 1050T08P13 | 1050T08P14 | 2.050 |
| 10 | 8 | 95 | 1050T10P00 | 1050T10P12 | 1050T10P13 | 1050T10P14 | 3.615 |
| 12 | 9 | 120 | 1050T12P00 | 1050T12P12 | 1050T12P13 | 1050T12P14 | 5.740 |

## 1100T..P Fluoropolymer (PFA) Tubing — Tubepack® 100 m

| O.D. (mm) | I.D. (mm) | R | Clear | crystal | crystal | crystal | kg |
|---|---|---|---|---|---|---|---|
| 4 | 2 | 12 | 1100T04P00 | 1100T04P12 | 1100T04P13 | 1100T04P14 | 0.870 |
| 6 | 4 | 34 | 1100T06P00 | 1100T06P12 | 1100T06P13 | 1100T06P14 | 2.370 |
| 8 | 6 | 60 | 1100T08P00 | 1100T08P12 | 1100T08P13 | 1100T08P14 | 4.100 |
| 10 | 8 | 95 | 1100T10P00 | 1100T10P12 | 1100T10P13 | 1100T10P14 | 7.230 |
| 12 | 9 | 120 | 1100T12P00 | 1100T12P12 | 1100T12P13 | 1100T12P14 | 11.480 |

## 1010T..A Fluoropolymer (PFA) Antistatic Tubing — Tubepack® 10 m

| O.D. (mm) | I.D. (mm) | R | | kg |
|---|---|---|---|---|
| 4 | 2 | 12 | 1010T04A01 | 0.087 |
| 6 | 4 | 34 | 1010T06A01 | 0.237 |
| 8 | 6 | 60 | 1010T08A01 | 0.410 |
| 10 | 8 | 95 | 1010T10A01 | 0.723 |
| 12 | 9 | 120 | 1010T12A01 | 1.148 |

## 1050T..A Fluoropolymer (PFA) Antistatic Tubing — Tubepack® 50 m

| O.D. (mm) | I.D. (mm) | R | | kg |
|---|---|---|---|---|
| 4 | 2 | 12 | 1050T04A01 | 0.435 |
| 6 | 4 | 34 | 1050T06A01 | 1.185 |
| 8 | 6 | 60 | 1050T08A01 | 2.050 |
| 10 | 8 | 95 | 1050T10A01 | 0.362 |
| 12 | 9 | 120 | 1050T12A01 | 5.740 |