

Fluoropolymer Tubing - FEP



The fluoropolymer FEP (fluorinated ethylene propylene) tubing offers good mechanical strength. Transparent, it allows fluid control without technical compromise.

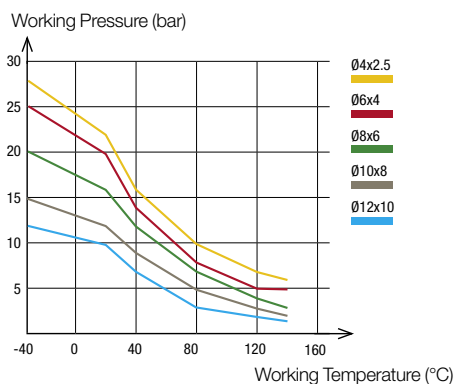
Ø metric:
4 to 12 mm

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) (55 Shore D)

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

Performance



Regulations

- | | |
|--------------|----------------|
| Food: | Industrial: |
| • FDA | • RoHS |
| | • PED |
| | • REACH |

Advantages

- Flexible and non-flammable material
- FDA approval resistance to chemical agents and solvents

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

Packaging
Tubepack®: 5 m, 25 m

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

1005T Fluoropolymer (FEP) Tubing

Tubepack® 5 m

ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	Kg
4	2.5	40	1005T04 00 25	4	2.5	40	1005T04 00 25	4	2.5	0.155
6	4	50	1005T06 00	6	4	50	1005T06 00	6	4	0.250
8	6	70	1005T08 00	8	6	70	1005T08 00	8	6	0.385
10	8	120	1005T10 00	10	8	120	1005T10 00	10	8	0.524
12	10	180	1005T12 00	12	10	180	1005T12 00	12	10	0.547

1025T Fluoropolymer (FEP) Tubing

Tubepack® 25 m

ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	ØD ext.	ØD int.	Kg
4	2.5	40	1025T04 00 25	4	2.5	40	1025T04 00 25	4	2.5	0.506
6	4	50	1025T06 00	6	4	50	1025T06 00	6	4	1.025
8	6	70	1025T08 00	8	6	70	1025T08 00	8	6	1.431
10	8	120	1025T10 00	10	8	120	1025T10 00	10	8	1.693
12	10	180	1025T12 00	12	10	180	1025T12 00	12	10	1.913

Related Products

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

Push-In Fittings

LF 3800



Compression Fittings

Stainless Steel



Fluoropolymer Tubing - PFA



The PFA (perfluoroalkoxy) tubing range is available in 3 material grades offering 10 times longer than other fluoropolymer tubing service life under severe chemical and mechanical constraints. Compatible with all applications and extreme environments.

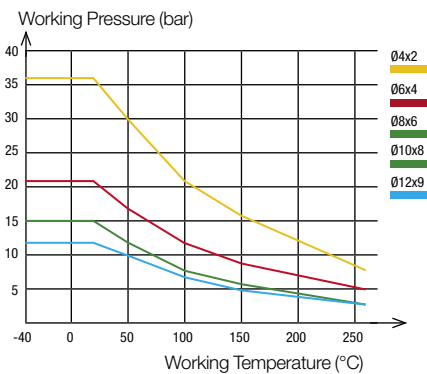
Ø metric:
4 to 12 mm

Technical Characteristics

- **Compatible Fluids:** Medical, bio-compatible, food process, gas, compressed air
- **Working Pressure:** Vacuum to 36 bar
- **Working Temperature:** Mini -40°C
Maxi +150°C with ferrules for severe conditions of use
- **Component Materials:** Perfluoroalkoxy - 55 Shore D
 - High Purity PFA
 - Translucent coloured PFA
 - 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).

Performance



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

Advantages

- Exceptional mechanical resistance: an alternative to stainless steel tubes
- Exceptional chemical resistance: anti-adhesive, chemical inertia, low permeability, non-flammable, UV transparent

3 material grades

- PFA high purity clear: mechanical resistance under stress
- Translucent coloured PFA: identification of circuits
- Black antistatic PFA: no electrostatic discharge

Regulations

Medical:

- USP: Class VI

Food:

- FDA
- 1935/2004

Industrial:

- ULV94
- RoHS
- PED
- REACH

Tube O.D.

Tube O.D. Tolerance

4 to 8 mm

+0.10/-0.10

10 to 12 mm

+0.15/-0.15

Packaging

Tubepack®: 10 m, 50 m, 100 m

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

1050T..P Fluoropolymer (PFA) Tubing

Tubepack® 50 m

ØD ext.	ØD int.	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				3.186
12	9	120	1050T12P00				5.692

Ø 10 mm and 12 mm: green, red and blue colours are available upon request, with minimum order quantity.

1100T..P Fluoropolymer (PFA) Tubing

Tubepack® 100 m

ØD ext.	ØD int.	R	clear	Kg
6	4	34	1100T06P00	3.485
8	6	60	1100T08P00	4.805
10	8	95	1100T10P00	7.230
12	9	120	1100T12P00	11.183

1010T..A Fluoropolymer (PFA) Antistatic Tubing

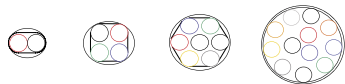
Tubepack® 10 m

ØD ext.	ØD int.	R	Antistatic	Kg
4	2	12	1010T04A01	0.243
6	4	34	1010T06A01	0.392
8	6	60	1010T08A01	0.549
10	8	95	1010T10A01	0.732

Multi-Tubing



PA or PU multitubes optimize the wiring space of pneumatic circuits.



Ø metric:
4 to 8 mm

Technical Characteristics

Tube	PA	PU
Compatible Fluids	Compressed air, chemicals, industrial fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 24 bar	0 to 14 bar
Working Temperature	-40°C to +80°C	-20°C to +70°C
Component Materials	Polyamide	Polyurethane ester

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).

Advantages

Sheathed PA Tubing

- 2 to 12 numbered tubes for circuit identification
- PVC sheathing resistant to abrasion, sparks, chemical attack
- Helically wound for a minimum bend radius

Twin PU Ester Tubing

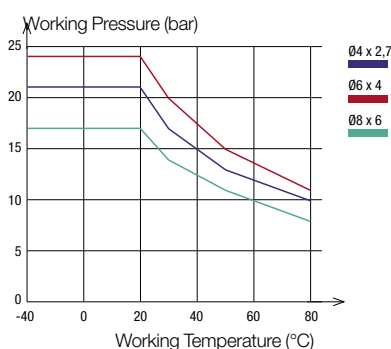
- 3 color combinations available for circuit identification
- Tube fully joined
- Outer diameter and circular shape maintained after separation

Regulations

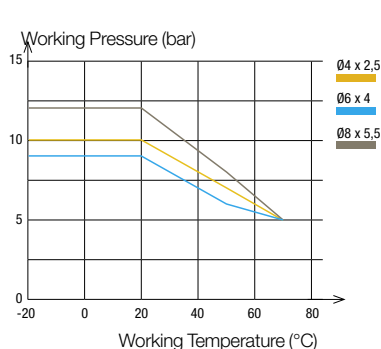
- RoHS
- PED
- REACH

Performance

Sheathed PA Tubing



Twin PU Ester Tubing



To calculate burst pressure, the values in these graphs should be multiplied by 3.

Material	Tube O.D.	Tube O.D. Tolerance
PA	4 mm	+0.05 / -0.08
	6 to 8 mm	+0.05 / -0.10
PU	4 to 8 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100 (for semi-rigid PA) and NF E49-101 (for twin PU ester).

1010P..M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 10 m

ØD ext.	ØD int.	Number of Outlets	Part Number	Kg
4	2.7	35	1010P04 00M04	1.440
	2.7	45	1010P04 00M07	1.920
6	4	55	1010P06 00M04	2.300
	4	60	1010P06 00M07	2.900
8	6	45	1010P08 00M02	2.600

1050P..M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 50 m

ØD ext.	ØD int.	Number of Outlets	Part Number	Kg
4	2.7	20	1050P04 00M02	5.450
	2.7	35	1050P04 00M04	6.600
	2.7	45	1050P04 00M07	8.200
	2.7	55	1050P04 00M12	15.200
6	4	45	1050P06 00M02	9.100
	4	55	1050P06 00M04	11.500
	4	60	1050P06 00M07	12.500
8	6	45	1050P08 00M02	13.600

1420U Twin Polyurethane (PU) Tubing

Tubepack® 25 m

ØD ext.	ØD int.	Number of Outlets	Part Number	Part Number	Part Number	Kg
4	2.5	12	1420U04 11	1420U04 41	1420U04 44	0.620
6	4	15	1420U06 11	1420U06 41	1420U06 44	1.182
8	5.5	20	1420U08 11	1420U08 41	1420U08 44	1.942