

FEP TUBING

Polyflon offers FEP tubing in IDs ranging from 0.2mm up to 100mm and due to FEP being melt processible, very long continuous lengths are possible. Excellent chemical resistance, surface smoothness, transparency and purity of FEP tubing make it the material of choice in many fluid handling applications within the semiconductor, chemical process plant, instrumentation, bio-tech and medical markets.

Key Features of FEP Tubing:

- ⦿ Good optical clarity (96% UV transmission)
- ⦿ Very smooth internal surfaces
- ⦿ Reduced gas diffusion
- ⦿ Excellent chemical resistance
- ⦿ Ideal for thermoforming
- ⦿ Wide temperature range -254°C (-425°F) to 205°C (392°F)
- ⦿ Tight dimensional tolerances
- ⦿ Biocompatible
- ⦿ FDA & USP Class VI compliant
- ⦿ Gamma & ETO sterilisable



Availability of FEP Tubing:

- ⦿ Long continuous lengths on spools or in coils
- ⦿ Thermoformed into custom 2D & 3D shapes
- ⦿ Tip forming: flanges, flares, draw downs, complex micro-moulded ends
- ⦿ Ready assembled with connectors
- ⦿ Straight pieces with clean, square cuts
- ⦿ Bagged directly off extruder to maintain cleanliness
- ⦿ Pigmentations, striped or solid
- ⦿ Available as multihose

FEP Tubing - Standard Metric Sizes:

ID	ID tol. +/-	OD	OD tol. +/-	W	MBR	W/P @ 23°C (bar)	B/P @ 23°C (bar)
1.00	0.10	2.00	0.10	0.50	8	22	112
2.00	0.10	4.00	0.10	1.00	16	22	112
2.50	0.10	4.00	0.10	0.75	22	13	67
3.00	0.10	4.00	0.10	0.50	32	7	37
4.00	0.10	6.00	0.10	1.00	36	11	56
5.00	0.15	8.00	0.15	1.50	43	13	67
6.00	0.10	8.00	0.10	1.00	64	7	37
8.00	0.10	10.00	0.10	1.00	100	5	28
9.00	0.15	12.00	0.15	1.50	96	7	37
10.00	0.15	12.00	0.15	1.00	144	4	22

MBR=minimum bend radius, W/P-working pressure, B/P=burst pressure

FEP Tubing - Standard Imperial Sizes:

ID	ID (mm)	ID tol.+/- (mm)	OD	OD (mm)	OD tol. +/- (mm)	W (mm)	MBR	W/P @ 23°C (bar)	B/P @ 23°C (bar)
1/32"	0.79	0.10	1/16"	1.59	0.10	0.40	7	22	113
1/16"	1.59	0.10	1/8"	3.18	0.10	0.79	13	22	111
1/8"	3.18	0.15	1/4"	6.35	0.15	1.59	26	22	112
5/32"	3.97	0.15	1/4"	6.35	0.15	1.19	34	13	67
3/16"	4.76	0.10	1/4"	6.35	0.10	0.79	51	7	37
1/4"	6.35	0.15	3/8"	9.53	0.15	1.59	57	11	56
3/8"	9.53	0.20	1/2"	12.70	0.20	1.59	102	7	37
1/2"	12.70	0.20	5/8"	15.88	0.20	1.59	159	5	28
5/8"	15.88	0.25	3/4"	19.05	0.25	1.59	228	4	22
7/8"	22.22	0.30	1"	25.40	0.30	1.59	311	3	16

MBR=minimum bend radius (mm), W/P-working pressure, B/P=burst pressure

Although the size range above satisfies most applications, many more sizes and custom dimensions are possible to suit your specific needs.

Get in touch with Polyflon to discuss your requirements. Call us on [+44 \(0\)1785 859 054](tel:+441785859054) or email us at info@polyflon.co.uk

