

Fluorinated Ethylene Propylene Tubing

NON-FLAMMABLE

NON-STICK

LOW PERMEABILITY

FEP Tubing is an option where the chemical and thermal resistance of Teflon™ is required at a low cost. FEP Tubing is made of 100% virgin FEP (fluorinated ethylene propylene). It is resistant to a broad range of solvents, bases and strong acids. The product has excellent optical clarity which makes it ideal for sight gauge and flow applications.

Specifications

- Meets or Exceeds ASTM D 3296-03
- Temperature: -100°F to 400°F
- Flammability: UL 94 VO Rated
(Resists combustion and spread of flames)
- U.S. Pharmacopoeia Class VI Certification
- Cytotoxicity Criteria
- CFR Title 21 Section 177.1550
- Traceability: Lot and Batch
- Certification: Lot and Batch
- Current Good Manufacturing Practices (CGMP)
- Animal Derived Ingredient Free

Sterilization

- Ethylene Oxide
- Autoclave

Benefits

- Made from 100% virgin grade high-performance resins
- Chemically inert to most industrial chemicals and solvents
- Excellent UV transmission (optically clear)
- Low permeability
- High thermal stability
- FDA compliant for food contact
- Superior electrical insulation
- Suitable for use with flare or conventional compression fittings
- Non-flammable
- Non-stick

Material Properties

Property	Test Method@73°F	Unit	Value
Upper Service Temperature		°F (°C)	400 (204)
Specific Gravity	ASTM D792		2.15
Tensile Strength	ASTM D1708	psi (Mpa)	4,000 (27.5)
Elongation	ASTM D638	%	400
Flex Modulus	ASTM D790	psi (Mpa)	90,000 (620)
MIT Flex Life	ASTM D2176		200,000
Durometer Hardness	ASTM D2240	Shore D	57-60

Applications

- Chemical process
- Electrical Insulation
- Heat Exchangers
- Laboratory applications
- Pharmaceuticals
- Medical Devices
- Semiconductor
- Food Processing
- Automotive
- Aquatic
- UV Water purification systems
- Ground water monitoring
- Ground remediation

Sizing Chart

ID	OD	Wall	Bend Radius	Max WP @ 72°F
1/16"	1/8"	1/32"	1/2"	445 PSI
1/16"	3/16"	1/16"	1/2"	612 PSI
1/8"	1/4"	1/16"	1/2"	460 PSI
1/8"	3/16"	1/32"	3/4"	296 PSI
.156"	.250"	.047"	3/4"	349 PSI
.170"	.250"	.040"	1.00"	297 PSI
3/16"	5.16"	1/16"	1.00"	368 PSI
3/32"	5.32"	1/32"	Contact Factory	Contact Factory
3/16"	1/4"	.030"	1.00"	223 PSI
1/4"	5/16"	.030"	1-3/4"	178 PSI
1/4"	3/8"	1/16"	1.00"	307 PSI
5/16"	3/8"	.030"	2-1/2"	148 PSI
3/8"	7/16"	.030"	3-1/2"	127 PSI
3/8"	1/2"	.062"	2.00"	230 PSI
7/16"	1/2"	.030"	6.00"	111 PSI
9/16"	5/8"	.030"	6 1/2"	89 PSI
1/2"	5/8"	.062"	3.00"	184 PSI
5/8"	3/4"	1/16"	6.00"	153 PSI
11/16"	3/4"	.030"	8.00"	74 PSI
3/4"	7/8"	.062"	12.00"	132 PSI
7/8"	1"	.062"	22.00"	115 PSI
1"	1-1/8"	.062"	Contact Factory	75 PSI
1-1/8"	1-1/4"	1/16"	Contact Factory	70 PSI

FEP Metric Sizes

ID	OD	Wall	Bend Radius	Max WP @ 72°F
1mm	3mm	1mm	Contact Factory	Contact Factory
2mm	4mm	1mm	1 1/2"	464 PSI
3mm	5mm	1mm	Contact Factory	Contact Factory
4mm	6mm	1mm	1-3/4"	309 PSI
5mm	7mm	1mm	Contact Factory	Contact Factory
6mm	8mm	1mm	2 -1/2'	232 PSI
6mm	9mm	1.5mm	Contact Factory	Contact Factory
7mm	9mm	1mm	Contact Factory	Contact Factory
8mm	10mm	1mm	2 -3/4"	186 PSI
9mm	11mm	1mm	Contact Factory	Contact Factory
10mm	12mm	1mm	4.00"	155 PSI
11mm	13mm	1mm	Contact Factory	Contact Factory
12mm	14mm	1mm	Contact Factory	Contact Factory

This information provided by Neumo is deemed to be accurate; however, it should be used only as a general reference to aid in product selection. Please note: a material's properties may be affected greatly by temperature, operating pressure, concentration, and the presence of other chemicals. Ultimately, the consumer must determine the compatibility of any material based on tests done under their particular process conditions.