

Polytetrafluoroethylene Tubing

NON-FLAMMABLE

NO PLASTICIZERS

NON-STICK

PTFE (Polytetrafluoroethylene) is perhaps the most widely used fluoropolymer available. Originally trademarked by Dupont under the trade name TEFLON, PTFE has many features which make it ideal for a wide range of applications.

PTFE tubing is more flexible than all other tubing in its class, and can resist nearly all industrial chemicals. Also, with a temperature range of approximately -330 to 500°F, it offers the widest temperature range of the fluoropolymers. In addition, it has excellent electrical properties and low permeability.

PTFE tubing is most widely used as a laboratory tubing and for applications where chemicals resistance is important. PTFE has a very low coefficient of friction and is one of the most "slippery" substances known.

We offer a broad range of sizes which can be used with standard compression fittings.

SIZING CHART

ID	OD	Wall	Bend Radius	Max WP @ 72 °F
1/16"	1/8"	1/32"	1/2"	F 300 PSI
1/8"	1/4"	1/16"	1/2"	310 PSI
1/8"	3/16"	1/32"	3/4"	200 PSI
1/70"	.250	.040"	1"	200 PSI
3/16"	1/4"	1/32"	1"	150 PSI
3/16"	5/16"	1/16"	Contact Factory	Contact Factory
1/4"	5/16"	1/16"	1-3/4"	275 PSI
1/4"	3/8"	1/16"	3/4"	207 PSI
295	.375"	.040"	Contact Factory	Contact Factory
5/16"	3/8"	1/32"	Contact Factory	Contact Factory
3/8"	1/2"	1/16"	2-1/2"	155 PSI
7/16"	1/2"	1/32"	6.00"	75 PSI
2MM	4MM	1MM	Contact Factory	Contact Factory
4MM	6MM	1MM	1"	208 PSI
6MM	8MM	1MM	2"	125 PSI
10MM	12MM	1MM	4"	104 PSI

Physical Properties

Properties	Method	Value
Hardness	D2240	60 Shore D
Tensile Strength, (PSI)	D1708, D638	3500
Tensile modulus (PSI)	D638	80,000
Elongation (%)	D1708, D638	300
Compressive Strength (PSI)	D695	3500
Impact Strength (Ft-Lb/in)	D256 @ 74 Fahrenheit (23 C)	3.5
Flexural Modulus (PSI)	D790 @ 74 Fahrenheit (23 C)	90,000
Brittle Temp	-51 units	-41
Specific Gravity	D 792	2.15
Melting Point	N/A	620°F (327°C)
Deflection Temperature @66 PSI	D648	252°F (122°C)
Deflection Temperature @264 PSI	D648	131°F (55°C)

Applications

- Laboratory Chemical Process
- Analytical and Process Equipment
- Emission Monitoring
- Cryogenic Applications
- High Temperature Applications
- Electronics
- Ozone
- Automotive Paint Spray
- Automotive Push Pull Cables
- Automotive Hose Assemblies
- Hydrocarbons

Sterilization

- Ethylene Oxide (ETO)
- Autoclave

Benefits

- Non flammable
- Low permeability
- No Plasticizers
- Non-stick surface
- FDA compliant
- Excellent Electrical properties
- Resistant to nearly all industrial chemicals

Certifications

- CFR Title 21 Section 177.1550
- USP Class VI
- REACH/RoHs

This information provided by CLARIPURE[®] 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.