

PTFE

Polytetrafluoroethylene



Description and Overview

PTFE, also known under the brand name Teflon^{®1}, is a soft fluoropolymer mechanical plastic with exceptional resistance to high temperatures, chemicals, corrosion and stress cracking.

PTFE features impressive heat, mechanical toughness, electrical and low friction properties, making it the material of choice for many high heat and low friction applications.

PTFE plastic is available in FDA approved, electrical, mechanical, glass-filled and bearing grades.

Applications and Uses

PTFE is soft and formable, often used for chemically resistant seals and gaskets. With strong electrical properties, PTFE is also used in many aerospace and computer applications. Glass-filled PTFE has enhanced strength and stiffness properties.

- Bearings and bushings
- Gears
- Slide plates
- Gaskets
- Valve stem seals, valve seats
- Chute liners
- Pump parts
- Cable insulation
- Connector assemblies
- Electrical sleeves
- Semiconductor equipment
- Scientific, medical equipment
- Chemical resistant tubing
- Shims
- Oven plates
- Non-stick and release coating

PTFE is available in virgin, mechanical, & glass blend grades.

Full Sheet: 48"x48" (0.030" through 1" thick)
Rod: (0.25" through 4.0" diameter)

Properties and Specifications


Property	Mechanical	Virgin
Specific Gravity	2.15	2.15-2.2
Elongation at Break	75-200%	75-200%
Tensile Strength (psi)	1500-2400	1500-2400
Moisture Absorption @ Saturation	>0.01%	>0.01%
Dielectric Constant (1k cps)	2.26	2.26
Dielectric Strength (volts/mil.)	450	450
Minimum Service Temperature	-328° F	-328° F
Maximum Service Temperature	500° F	500° F
Affixable Properties	Mech	


Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals or adhesives.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

¹Teflon[®] is a registered trademark of E. I. du Pont de Nemours and Company.

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 WARNING: This product can expose you to chemicals including Tetrafluoroethylene, CAS 116-14-3 which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

 WARNING: This product can expose you to chemicals including Tetrafluoroethylene, CAS 116-14-3, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



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