

# PTFE

## PolyTetraFluoroEthylene

Lo-Friction Applications  
Wear Plates + Strips

Bushings, Bearings  
Chemically Inert

### Physical & Mechanical Properties

Specific Gravity	g/cm <sup>3</sup>	D792	2.16
Tensile Strength	PSI	D638	3,900
Tensile Elongation at Break	%	D638	300
Compressive Strength	PSI	D695	3,500
Melting Temp	°F / °C	D3418	635 / 335
Max Operating Temp	°F / °C		500 / 260
Hardness, Shore D		D785	D50
Water Absorption	%	24 hrs	<0.01
Thermal Conductivity	BTU-in/ft <sup>2</sup> -hr-°F	C177	1.70

### Electrical Properties

Dielectric Strength	(V/mil) Short time	D149	1/8 th	285
Dielectric Constant	1 Mhz	D150		2.1

PolyTetraFluoroEthylene is a fluorocarbon-based polymer, offers high chemical resistance, low and high temperature capability, resistance to weathering, low friction, electrical and thermal insulation. Its properties remain at a useful level over a wide temperature range of -100°F to +400°F. It has excellent thermal and electrical insulation properties and a low coefficient of friction.

Values are based on typical Test Methods and Conditions and published for Reference purposes only