



PTFE, Polytetrefluoroethylene

PTFE (polytetrefluoroethylene) is a soft, low friction fluoropolymer with outstanding chemical and weathering resistance. PTFE is stable at temperatures up to 500°F and it is often used in high temperature environments. PTFE also has excellent electrical insulating properties. PTFE is available in a variety of formulations including unfilled, glass-filled, and bearing grades.

- Performance characteristics:
- Outstanding chemical resistance
 - Extremely low friction
 - Soft and formable
 - Good weathering resistance
 - Performs well at elevated temperatures

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

PTFE, Polytetrefluoroethylene			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Tensile Strength	D638	psi	1,500 - 3,000
Flexural Modulus	D790	psi	72,000
Izod Impact (notched)	D256	ft-lbs/in	3.5
Heat Deflection Temperature @ 66 psi	D648	°F	250
Maximum Continuous Service Temperature in air	-	°F	500
Water Absorption (immersion 24 hours)	D570	%	<0.01
Coefficient of Linear Thermal Expansion	D696	in/in/°Fx10 ⁻⁵	8.9
Coefficient of Friction (dynamic)	-	-	0.10