



TEFZEL® ETFE

Characteristics

- * Superior Abrasion Resistance
- * Electrical and Thermal Insulative
- * Good Permeability Resistance
- * Broad Usable Temperature Range
- * Excellent Chemical Resistance

Description

Tefzel is a modified ETFE (ethylene-tetrafluoroethylene) fluoropolymer combining mechanical toughness with an outstanding chemical inertness which approaches that of Teflon resins. It provides corrosion resistance and mechanical strength over a wide temperature range. Tefzel offers good permeability resistance, abrasion resistance, and strong electrical and thermal insulation properties

Forms Available

ROD .500 to 1.500 " diameter, Lengths to 48"
TUBE Custom produced as requested
PLATE .250" to .750" thick, Widths to 12", Lengths to 12"
COLOR White

Typical Property Values

MECHANICAL @ 73°F

Density	
Tensile Strength	psi
Tensile Modulus of Elasticity	psi
Tensile Elongation (at Break)	%
Flexural Strength	psi
Flexural Modulus of Elasticity	psi
Shear Strength	psi
Compressive Strength, 10% Deformation	psi
Compressive Modulus of Elasticity	psi
Shorel Hardness	D Scale
Izod Impact Strength, Notched	ft-lbs/in. of notch
Coefficient of Friction, Dynamic (Dry vs. Steel)	
Limiting PV (4 :1 Safety Factor Applied)	ft.lbs/in. ² min
Wear Factor	in ³ -min/ft.lbs. hr.
Water Absorption 24 hrs	% by wt.

THERMAL

Coefficient of Linear Expansion (-40°F to 300°F)	in./in./°F
Heat Deflection Temperature @264 psi	°F
Melting Point (Crystalline)	°F
Continuous Service Temperature in Air	°F
Thermal Conductivity	°F

ELECTRICAL

Dielectric Strength, Short Term	Volts/mil
Surface Resistivity	Ohms/Sq.
Dielectric Constant	1 MHz
Dissipation Factor	1 MHz

Tefzel® ETFE

0.06
6,100
300
145,000
2,470
67
< .01
7.3 x 10 ⁻⁵
512
311
1,800
2.50
0.006

(Properties listed above are provided for reference only, they should not be used for design specifications or quality control , Tefzel is a registered Trademark of Dupont)