



Tefzel

TYPICAL PROPERTIES of TEFZEL[®] ETFE

ASTM or UL test	Property	ETFE
PHYSICAL		
D792	Density (lb/in ³) (g/cm ³)	0.061 1.7
D570	Water Absorption, 24 hrs (%)	< 0.01
MECHANICAL		
D638	Tensile Strength (psi)	6,100
D638	Tensile Modulus (psi)	-
D638	Tensile Elongation at Break (%)	300
D790	Flexural Strength (psi)	-
D790	Flexural Modulus (psi)	145,000
D695	Compressive Strength (psi)	2,470
D695	Compressive Modulus (psi)	-
D785	Hardness, Shore D	D67
D256	IZOD Notched Impact (ft-lb/in)	No Break
THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	7.3
D648	Heat Deflection Temp (°F / °C) at 264 psi	-
D3418	Melting Temp (°F / °C)	512 / 267
-	Max Operating Temp (°F / °C)	311 / 155
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	- -
UL94	Flammability Rating	V-0
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 0.01" thick	1,800
D150	Dielectric Constant at 1 MHz	2.5
D150	Dissipation Factor at 1 MHz	0.0060
D257	Volume Resistivity (ohm-cm)at 50% RH	10 ¹⁷

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.
All values at 73°F (23°C) unless otherwise noted.