

## Tefzel<sup>®</sup> ETFE Material Data Sheet

ASTM or UL test	Property	ETFE
<b>PHYSICAL</b>		
D792	Density (lb/in <sup>3</sup> ) (g/cm <sup>3</sup> )	0.061 1.7
D570	Water Absorption, 24 hrs (%)	< 0.01
<b>MECHANICAL</b>		
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
<b>THERMAL</b>		
D696	Coefficient of Linear Thermal Expansion (x 10 <sup>-5</sup> 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 <sup>2</sup> -hr-°F) (x 10 <sup>-4</sup> cal/cm-sec-°C)	- -
UL94	Flammability Rating	V-0
<b>ELECTRICAL</b>		
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 <sup>17</sup>

All values at 73°F (23°C) unless otherwise noted.  
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