



Tefzel ETFE Properties

Property	ASTM Method	Unit	Grade HT-2183
Mechanical/Physical			
Melt Flow Rate	D-3159	g/10 min	2-16
Specific Gravity	D-792		1.69-1.76
Water Absorption, 24 Hr.	D-570	%	0.0007
Tensile Strength, 23°C	D-638	psi	5,500-6,100
Ultimate Elongation, 23°C	D-638	%	275-300
Impact Strength, 23°C, Notched Izod	D-256	J/m	no break
Flexural Modulus, 23°C	D-790	psi	145,000
Durometer Hardness, Shore D	D-2240	D	67
Coefficient of Friction	D-1894		0.23
Thermal			
Melting Point	D-3418	°C	255-280
Linear Coefficient of Expansion (0°C to 100°C)	D-696	mm/mm/°C	13.3 X 10 ⁻⁵
Limiting Oxygen Index	D-2863	%	30-32
Upper Service Temperature		°C	155
Flammability	UL 94		V-0
Electrical			
Surface Resistivity	D-257	ohm-sq	10 ⁻¹⁷
Volume Resistivity	D-257	ohm-cm	10 ⁻¹⁷
Dielectric Strength (10 mil film)	D-149	Volts/mil	1,800
Dielectric Constant, 23°C, 1 MHz	D-150		2.5-2.6
Dissipation Factor, 23°C, 1 MHz	D-150		0.0072