



### PRODUCT CAPABILITIES:

- Rod : 1/4" - 1.75"
- Sheet : 1/4" - 2"

### PRODUCT COLORS:

- Translucent (Natural)

### ADVANTAGES:

- Negligible moisture absorption
- High resistance to outdoor weathering
- Chemically inert to most industrial chemicals and solvents
- Exceptional dielectric insulation properties
- Rugged, good abrasive resistance and impact strength
- Compatible with hot air welding equipment
- Radiation and heat sterilization resistant

### APPLICATIONS INCLUDE:

- Pump housings and pipe linings
- Impellers and abrasive slurries
- Wet bench equipment
- Fluid handling and chemical processing
- Oxygen respirator components
- Food processing and packaging
- Military defense equipment and components

GENERAL PROPERTIES	TEST METHOD	TEFZEL® ETFE Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.7
Water Absorption, 24 hrs (%)	D570	0.007
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	6,700
Tensile Elongation at Break (%)	D638	300
Flexural Modulus (psi)	D790	170,000
Compressive Strength (psi)	D695	–
Compressive Modulus (psi)	D695	–
Hardness, Shore D	D2240	72
IZOD Notched Impact (J/m)	D256	No Break
Coefficient of Friction	D1894	0.3 - 0.4
Deformation under Load 23°C, 1 Kpsi, 24hr (%)	D621	–
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> mm/mm/°C)	D696	13.3
Heat Deflection Temp (°F / °C) @ 66 psi	D648	–
Melting Temp (°F / °C)	D3418	491 - 536 / 255 - 280
Limit oxygen Index (%)	D2863	30-32
Upper Service Temperature (°F / °C)	–	302 / 150
Thermal Conductivity (W/m-K)	–	–
Flammability Rating	UL94	V-O
<b>ELECTRICAL</b>		
Dielectric Strength (V/mil)	D149	1,800
Dielectric Constant at 1 MHz 23°C	D1531	2.5 - 2.6
Dissipation Factor at 1 MHz 23°C	D1531	0.0072
Arc Resistance (sec)	D495	–
Volume Resistivity (ohm-cm) at 50% RH	D257	10 <sup>17</sup>
Surface Resistivity (ohm-sq)	D257	10 <sup>15</sup>

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.