

Product Information

PF-616L is an ETFE pellet grade with excellent mechanical strength, weather resistance, flame retardancy, chemical resistance, gas barrier performance and electrical insulation properties. Compared with many fluoropolymers, ETFE offers lower density, good radiation resistance and strong adhesion to metal surfaces.

TYPICAL PROPERTIES OF ETFE PF-616L

Physical Properties			
Appearance	—	Transparent pellets, no visible impurities	Visual
Melt Flow Rate	g/10 min	5.1–15.0	ASTM D3159, 297°C / 5 kg
Melting Point	°C	220–230	ASTM D3159
Appearance	—	Transparent pellets, no visible impurities	Visual
Mechanical Properties			
Specific Gravity	g/cm ³	1.76–1.85	HG/T 2904-1997
Hardness	HB	50–60	ASTM D2240
Tensile Strength, 23°C	MPa	28–45	HG/T 2904-1997
Elongation, 23°C	%	300–450	HG/T 2904-1997
Izod Impact Strength, 23°C	ft-lb/in	No Break	HG/T 2904-1997
Thermal Properties			
Maximal Temperature of Continuous Work	°C	150	—
Glass Transition Temperature	°C	80–120	DMA
Thermal Expansion Coefficient	(10 ⁻⁵ /°C)	9.0–9.3	ASTM D696
Water Absorption	%	≤0.03	HG/T 2904-1997
Oxygen Index	%	≥50	GB/T 2406-93
Electrical Properties			
Volume Resistivity	Ω·cm	10 ¹⁸	ASTM D257
Insulation Breakdown Voltage	kV (0.2 mm Thickness)	≥7.5	ASTM D149
Relative Dielectric Constant	10 ⁶ Hz	≤2.4	ASTM D150
Dielectric Loss Angle Tangent	10 ⁶ Hz	0.008	ASTM D150

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