

Westlake Plastics PEEK Film Made from VICTREX® Polymer

Category : Polymer , Film , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

Material Notes:

Extremely high temperature resistance and continuous use temperature. Excellent flexural and tensile properties. Good abrasion and rain erosion resistance. Excellent chemical resistance. Excellent electrical properties. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-PEEK-Film-Made-from-VICTREX-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.256 g/cc	0.04538 lb/in ³	ASTM D792
Water Absorption	0.40 %	0.40 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ASTM D882
Elongation at Break	50 %	50 %	ASTM D882
Tensile Modulus	2.699 GPa	391.5 ksi	ASTM D882
Flexural Modulus	3.66 GPa	531 ksi	ASTM D790
Tear Strength	13.7 kN/m	78.4 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	340 °C	644 °F	DSC
Maximum Service Temperature, Air	240 °C	464 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	330 °F	ASTM D648
Glass Transition Temp, Tg	142.7 °C	288.9 °F	ASTM D3418
Flammability, UL94	V-0	V-0	VTM-1
NBS Smoke Density	<= 1.0	<= 1.0	ASTM E662
Oxygen Index	23 %	23 %	ASTM D2863

Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ASTM D1003

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	1.80e+15 ohm Metric	1.80e+15 ohm English	ASTM D257 Comments
Dielectric Constant	3.3 @Frequency 1000 Hz	3.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	126 kV/mm @Thickness 0.0762 mm	3200 kV/in @Thickness 0.00300 in	ASTM D149
Dissipation Factor	0.0026 @Frequency 10000 Hz	0.0026 @Frequency 10000 Hz	ASTM D150

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