

Westlake Plastics Tempalux® Film Made from ULTEM® Polyetherimide Resin

Category : Polymer , Film , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High heat deflection and continuous use temperature. Inherent flame resistance. Extremely low NBS smoke evolution & superior limiting oxygen index. Ultem® is a trade name of GE Plastics. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Tempalux-Film-Made-from-ULTEM-Polyetherimide-Resin.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.9 MPa	14200 psi	ASTM D882
Elongation at Break	52 %	52 %	ASTM D882
Tensile Modulus	3.28 GPa	475 ksi	ASTM D882
Flexural Modulus	3.31 GPa	480 ksi	ASTM D790
Tear Strength	147 kN/m	840 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 °C	338 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	201 °C	394 °F	ASTM D648
Glass Transition Temp, Tg	215.5 °C	419.9 °F	ASTM D3418
Flammability, UL94	V-0	V-0	VTM-0
NBS Smoke Density	<= 6.0	<= 6.0	ASTM E662
Oxygen Index	47 %	47 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.658	1.658	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257

Electrical Properties	^{3.15} Metric	^{3.15} English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	120 kV/mm @Thickness 0.0762 mm	3050 kV/in @Thickness 0.00300 in	ASTM D149
Dissipation Factor	0.0013 @Frequency 1000 Hz	0.0013 @Frequency 1000 Hz	ASTM D150

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