

Westlake Plastics PES film Made from ULTRASON® E Polyethersulfone Resin

Category : Polymer , Film , Thermoplastic , Polyethersulfone (PES) , Polyphenylsulfone (PPSU)

Material Notes:

High heat deflection and continuous use temperature. Exceptional tensile and flexural strength. High dielectric strength. Exceptional mechanical properties. Dimensionally stable at varying temperature. Transparency. Ultrason® is a trade name of BASF. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-PES-film-Made-from-ULTRASON-E-Polyethersulfone-Resin.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.4 MPa	10500 psi	ASTM D882
Elongation at Break	52 %	52 %	ASTM D882
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Tear Strength	37.3 kN/m	213 pli	DIN 53363

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ASTM D648
Glass Transition Temp, Tg	225 °C	437 °F	ASTM D3418
Oxygen Index	38 %	38 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.65	1.65	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	181 kV/mm	4600 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 0.102 mm	English @ Thickness 0.00400 in	ASTM D149 Comments
Dissipation Factor	0.0011 @Frequency 1000 Hz	0.0011 @Frequency 1000 Hz	ASTM D150

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