

Westlake Plastics PMP Film Made from TPX® Polymethylpentene Resin

Category : Polymer , Film , Thermoplastic , Polymethylpentene (PMP) , Polymethylpentene, Molded

Material Notes:

Lowest specific gravity of any known thermoplastic. Exceptional electrical properties. Good chemical resistance. High heat resistance.

Excellent acoustical properties. Transparency. FDA compliant. TPX® is a trade name of Mitsui Plastics Inc. Information provided by

Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-PMP-Film-Made-from-TPX-Polymethylpentene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.835 g/cc	0.0302 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.3 MPa	4110 psi	ASTM D882
Elongation at Break	10 %	10 %	ASTM D882
Tensile Modulus	1.93 GPa	280 ksi	ASTM D882
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
Tear Strength	48.1 kN/m	274 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	235 °C	455 °F	DSC
Maximum Service Temperature, Air	100 °C	212 °F	Continuous Use
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
Flammability, UL94	HB	HB	
Oxygen Index	<= 25 %	<= 25 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.463	1.463	
Haze	2.0 %	2.0 %	ASTM D1003

Electrical Properties	Metric	English	Comments

Surface Resistance Electrical Properties	$\geq 1.00\text{e}+16$ ohm Metric	$\geq 1.00\text{e}+16$ ohm English	ASTM D257 Comments
Dielectric Constant	2.12 @Frequency 1000 Hz	2.12 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	146 kV/mm @Thickness 0.0762 mm	3710 kV/in @Thickness 0.00300 in	ASTM D149
Dissipation Factor	0.000025 @Frequency 1000 Hz	0.000025 @Frequency 1000 Hz	ASTM D150

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