

Westlake Plastics TPX® Polymethylpentene

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

Material Notes:

TPX is a lightweight, high temperature polyolefin with exceptional acoustical and electrical properties. TPX has low moisture absorption and excellent chemical resistance. It is often used for applications requiring low distortion of sound waves including sonar covers, speaker ones, and ultrasonic transducer heads. TPX is also used for electrical insulating applications requiring high dielectric strength and low dielectric constant. 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-TPX-Polymethylpentene.php

Physical Properties	Metric	English	Comments
Density	0.840 g/cc	0.0303 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	ASTM D7852
Tensile Strength at Break	15.9 MPa	2300 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.2 °C	180 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1746
Transmission, Visible	91 %	91 %	ASTM D1746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.12	2.12	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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