

Goodfellow TPX® DX350 Coating/Extrusion Grade Polymethylpentene

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

Material Notes:

This grade is highly recommended for paper coating or for fiber extrusion. TPX® is semi-crystalline, transparent, very light and - for a polyolefin - expensive. It has good release characteristics and good high frequency electrical and valuable acoustic/ultrasonic properties. Applications include medical and laboratory apparatus, microwave components and cookware and electronic components. Information provided by Goodfellow. TPX® is a trademark of Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-TPX-DX350-CoatingExtrusion-Grade-Polymethylpentene.php

Physical Properties	Metric	English	Comments
Density	0.833 g/cc	0.0301 lb/in ³	ASTM D1505
Water Absorption	<= 0.010 %	<= 0.010 %	ASTM D570
Melt Flow	110 g/10 min @Load 5.00 kg, Temperature 260 °C	110 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	87	87	ASTM D785
Tensile Strength	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	14 %	14 %	ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ASTM D638
Flexural Strength	41.0 MPa	5950 psi	ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Izod Impact, Unnotched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C	65.0 µin/in-°F	ASTM E831
Melting Point	233 °C	451 °F	DSC Peak; JIS K7121
Deflection Temperature at 0.46 MPa (66 psi)	124 °C	255 °F	ASTM D648
Vicat Softening Point	169 °C	336 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.46	1.46	ASTM D542
Haze	2.1 %	2.1 %	ASTM D1003
Transmission, Visible	93 %	93 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	ASTM D257
Dielectric Constant	2.1	2.1	ASTM D150
Dielectric Strength	65.0 kV/mm	1650 kV/in	ASTM D149

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