

Goodfellow TPX® MX0020 Polymethylpentene

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

Material Notes:

This grade is highly recommended for injection molding, film and mandrel extrusion; also for fiber extrusion and blow molding. 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-MX0020-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
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	MCI Method 2
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	MCI Method 2
Melt Flow	21 g/10 min @Load 5.00 kg, Temperature 260 °C	21 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Spiral Flow	56.0 cm	22.0 in	MCI Method 1

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	42	42	ASTM D785
Tensile Strength	10.0 MPa	1450 psi	ASTM D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	0.880 GPa	128 ksi	ASTM D638
Flexural Strength	27.0 MPa	3920 psi	ASTM D790
Flexural Modulus	0.660 GPa	95.7 ksi	ASTM D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	129 kJ/m ²	61.4 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C	65.0 µin/in-°F	ASTM E831

Thermal Properties	Metric	English	Comments
Melting Point	224 °C	433 °F	DSC Peak, JIS K7121
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ASTM D648
Vicat Softening Point	165 °C	329 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.46	1.46	ASTM D542
Haze	1.2 %	1.2 %	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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