

Mitsui TPX® MBZ230 Methylpentene Copolymer, Filled, Opaque Grade (discontinued **)

Category : Polymer , Thermoplastic , Polymethylpentene (PMP)

Material Notes:

TPX® is a 4-methylpentene-1 based polyolefin with a unique combination of transparency, heat and chemical resistant qualities. TPX is used in a wide variety of applications, including: medical equipment, laboratory ware, small appliances, ovenware, baking cartons, release paper, wire and cable coating, and a number of industrial uses. TPX is manufactured and marketed solely by Mitsui Chemicals, Inc. Applications: Injection Molded Items: Blood test cells Medical instruments Laboratory ware Coffee maker parts Cosmetic containers Extrusion Molded Items: Sight glass (pipes, sheets) Baking cartons (food containers) Release paper Wire and cable coating Films Molding Method: Injection Information provided by Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-TPX-MBZ230-Methylpentene-Copolymer-Filled-Opaque-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D1505
Water Absorption	0.11 %	0.11 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	MPC method, MD
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	MPC method
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 260 °C	30 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	16.7 MPa	2420 psi	5mm/min; ASTM D638
Tensile Strength, Yield	23.5 MPa	3410 psi	5mm/min; ASTM D638
Elongation at Break	25 %	25 %	MPC method, 5mm/min
Modulus of Elasticity	1.86 GPa	270 ksi	Tangent; ASTM D790
Flexural Strength	38.2 MPa	5540 psi	ASTM D790
Izod Impact, Unnotched (ISO)	14.7 kJ/m ² @Thickness 2.00 mm, Temperature 20.0 °C	6.99 ft-lb/in ² @Thickness 0.0787 in, Temperature 68.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	240 °C Metric	464 °F English	MPC Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648
Vicat Softening Point	175 °C	347 °F	ASTM D1525

Descriptive Properties	Value	Comments
Appearance	White Opaque	

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