

Mitsubishi Xantar[®] MX 1020 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Xantar[®] materials are engineered for performance, consistency and reliability. This makes Xantar[®] resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The Xantar[®] range includes: clear and tinted grades for transparent applications reinforced materials Flame retardant and halogen free types lubricated materials for added wear resistance Mitsubishi Engineering Plastics acquired the Xantar[®] product line from DSM in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-MX-1020-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Melt Flow	7.08 g/10 min @Load 1.20 kg, Temperature 280 °C	7.08 g/10 min @Load 2.65 lb, Temperature 536 °F	Calculated from Volume Flow Rate of 6 cm ³ /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	60.0 kJ/m ² @Temperature -20.0 °C	28.6 ft-lb/in ² @Temperature -4.00 °F	ISO 180/4A
	70.0 kJ/m ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 180/4A
Dart Drop, Total Energy	11.0 J @Temperature -30.0 °C	8.11 ft-lb @Temperature -22.0 °F	Puncture Energy; ISO 6603-2

Mechanical Properties	16.0 J Metric	11.8 ft-lb English	Comments Puncture Energy; ISO 6603-2
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 Âµm/m-Â°C @Temperature 20.0 Â°C	36.1 Âµin/in-Â°F @Temperature 68.0 Â°F	ISO 11359-1/-2
Maximum Service Temperature, Air	125 Â°C	257 Â°F	Ball Pressure Temperature; IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	264 Â°F	ISO 75-1/-2
Vicat Softening Point	140 Â°C	284 Â°F	50Â°C/h 50N; ISO 306

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	IEC 60243-1
Comparative Tracking Index	250 - 399 V	250 - 399 V	PLC 2; UL 746A

Descriptive Properties	Value	Comments
High impact or impact modified	Yes	
Injection molding	Yes	
Release Agent	Yes	
Without Fillers	Yes	

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