Mitsubishi XantarÂ® MX 1082 Polycarbonate-20% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

XantarÂ® materials are engineered for performance, consistency and reliability. This makes XantarÂ® resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The XantarÂ® range includes: clear and tinted grades for transparent applicationsreinforced materialsFlame retardant and halogen free typeslubricated materials for added wear resistanceMitsubishi Engineering Plastics acquired the XantarÂ® product line from DSM in 2010.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-MX-1082-Polycarbonate-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/inÂ³	ISO 1183
Water Absorption	0.29 %	0.29 %	Sim. to ISO 62
Viscosity Test	56 cmÂ³/g	56 cmÂ³/g	Limiting Viscosity Number; ISO 1628-4
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4
Melt Flow	4.05 g/10 min @Load 1.20 kg, Temperature 300 Â°C	4.05 g/10 min @Load 2.65 lb, Temperature 572 Â°F	Calculated from Volume Flow Rate of 3 cm³/10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ISO 2039-2
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	ISO 527-1/-2
Flexural Strength	145 MPa	21000 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/4A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
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)	147 Â°C	297 Â°F	ISO 75-1/-2
Vicat Softening Point	150 Â°C	302 Â°F	50Â°C/h 50N; ISO 306
UL RTI, Electrical	130 Â°C @Thickness 1.50 mm	266 Â°F @Thickness 0.0591 in	UL746B
	130 Â°C @Thickness 3.00 mm	266 Â°F @Thickness 0.118 in	UL746B
UL RTI, Mechanical with Impact	125 Â°C @Thickness 1.50 mm	257 Â°F @Thickness 0.0591 in	UL746B
	130 Â°C @Thickness 3.00 mm	266 Â°F @Thickness 0.118 in	UL746B
UL RTI, Mechanical without Impact	125 Â°C @Thickness 1.50 mm	257 Â°F @Thickness 0.0591 in	UL746B
	130 Â°C @Thickness 3.00 mm	266 Â°F @Thickness 0.118 in	UL746B
Flammability, UL94	V-0 @Thickness 1.20 mm	V-0 @Thickness 0.0472 in	IEC 60695-11-10
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	IEC 60695-11-10
Oxygen Index	33 %	33 %	ISO 4589-1/-2
Glow Wire Test	850 Â°C @Thickness 1.50 mm	1560 Â°F @Thickness 0.0591 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	875 Â°C @Thickness 3.00 mm	1610 Â°F @Thickness 0.118 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	960 Â°C @Thickness 1.50 mm	1760 Â°F @Thickness 0.0591 in	Glow Wire Flammability Index; IEC 60695-2-12
	960 Â°C @Thickness 3.00 mm	1760 Â°F @Thickness 0.118 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	IEC 60250
	3.25 @Frequency 100 Hz	3.25 @Frequency 100 Hz	IEC 60250
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.00090 @Frequency 100 Hz	0.00090 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1e+6 Hz	0.0090 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	200 V	200 V	IEC 60112
	175 - 249 V	175 - 249 V	PLC 3; UL 746A

Descriptive Properties	Value	Comments
Flame Retardant	Yes	
Flame Retarding Agent	Yes	
Injection molding	Yes	
Release Agent	Yes	
With Fillers	Yes	

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