

## Mitsubishi Xantar<sup>®</sup> MX 2021 Polycarbonate

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

### Material Notes:

Xantar<sup>®</sup> materials are engineered for performance, consistency and reliability. This makes Xantar<sup>®</sup> resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The Xantar<sup>®</sup> 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<sup>®</sup> product line from DSM in 2010.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mitsubishi-Xantar-MX-2021-Polycarbonate.php](http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-MX-2021-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
Viscosity Test	47 cm <sup>3</sup> /g	47 cm <sup>3</sup> /g	Limiting Viscosity Number; ISO 1628-4
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Melt Flow	15.73 g/10 min @Load 1.20 kg, Temperature 300 °C	15.73 g/10 min @Load 2.65 lb, Temperature 572 °F	Calculated from Volume Flow Rate of 13 cm <sup>3</sup> /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ISO 2039-2
Tensile Strength, Yield	60.0 MPa	8700 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	2.30 GPa	334 ksi	ISO 527-1/-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	80.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/4A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 μm/m-°C	36.1 μin/in-°F	ISO 11359-1/-2

Thermal Properties	@Temperature 20.0 Metric °C	@Temperature 68.0 English °F	Comments
Maximum Service Temperature, Air	125 °C	257 °F	Ball Pressure Temperature; IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75-1/-2
Vicat Softening Point	150 °C	302 °F	50°C/h 50N; ISO 306
Oxygen Index	35 %	35 %	ISO 4589-1/-2
Glow Wire Test	825 °C @Thickness 1.50 mm	1520 °F @Thickness 0.0591 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	850 °C @Thickness 3.00 mm	1560 °F @Thickness 0.118 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	960 °C @Thickness 1.50 mm	1760 °F @Thickness 0.0591 in	Glow Wire Flammability Index; IEC 60695-2-12
	960 °C @Thickness 3.00 mm	1760 °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	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	IEC 60250
	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.00066 @Frequency 100 Hz	0.00066 @Frequency 100 Hz	IEC 60250
	0.0092 @Frequency 1e+6 Hz	0.0092 @Frequency 1e+6 Hz	IEC 60250

Descriptive Properties	Value	Comments
Flame Retardant	Yes	
Flame Retarding Agent	Yes	

Descriptive Properties	Value	Comments
Injection molding	Yes	
Release Agent	Yes	
U.V. stabilized or stable to weather	Yes	
Without Fillers	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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