

Mitsubishi Xantar[®] SF 22 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-SF-22-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	Foamed; ISO 1183
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
Viscosity Test	55 cm ³ /g	55 cm ³ /g	Limiting Viscosity Number; ISO 1628-4
Melt Flow	6.1 g/10 min @Load 1.20 kg, Temperature 300 °C	6.1 g/10 min @Load 2.65 lb, Temperature 572 °F	Calculated from Volume Flow Rate of 5 cm ³ /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa	5370 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	2.00 GPa	290 ksi	ISO 527-1/-2
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ISO 11359-1/-2
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Maximum Service Temperature, Air	125 Å°C	257 Å°F	Ball Pressure Temperature; IEC 60695-10-2
Deflection Temperature at 0.46 MPa	137 Å°C	279 Å°F	

Thermal Properties	Metric	English	ISO 75-1/-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 Å°C	261 Å°F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 6.00 mm	@Thickness 0.236 in	
	5VA	5VA	IEC 60695-11-20
	@Thickness 4.80 mm	@Thickness 0.189 in	
Oxygen Index	35 %	35 %	ISO 4589-1/-2

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	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.3	3.3	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00080	0.00080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	100 - 174 V	100 - 174 V	PLC 4; UL 746A
	175 V	175 V	

Descriptive Properties	Value	Comments
Flame Retardant	Yes	
Flame Retarding Agent	Yes	
Heat stabilized or stable to heat	Yes	
High impact or impact modified	Yes	
Injection molding	Yes	

Other Extrusion Descriptive Properties	Yes Value	Comments
With Fillers	Yes	

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