

Mitsubishi Xantar[®] C CF 107 Polycarbonate/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

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-C-CF-107-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Humidity Absorption; Sim. to ISO 62
Melt Flow	58.5 g/10 min @Load 5.00 kg, Temperature 260 Å°C	58.5 g/10 min @Load 11.0 lb, Temperature 500 Å°F	Calculated from Volume Flow Rate of 50 cm ³ /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.85 GPa	413 ksi	ISO 527-1/-2
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m ² @Temperature 23.0 Å°C	16.7 ft-lb/in ² @Temperature 73.4 Å°F	ISO 180/4A
Charpy Impact Unnotched	NB @Temperature -30.0 Å°C	NB @Temperature -22.0 Å°F	ISO 179/1eU
	NB @Temperature 23.0 Å°C	NB @Temperature 73.4 Å°F	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	Ball Pressure Temperature; IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ISO 75-1/-2
Vicat Softening Point	104 Â°C	219 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VB	5VB	IEC 60695-11-20
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	32 %	32 %	ISO 4589-1/-2
Glow Wire Test	750 Â°C	1380 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	750 Â°C	1380 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 Â°C	1760 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 Â°C	1760 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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	3.0	3.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	400 - 599 V	400 - 599 V	PLC 1; UL 746A
	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
Flame Retardant	Yes	

Flame Retardant Agent Descriptive Properties	Yes Value	Comments
Injection molding	Yes	
Release Agent	Yes	
Without Fillers	Yes	

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