

Mitsubishi Xantar® G4F 25 UR Polycarbonate-20% Glass Reinforced

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

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-G4F-25-UR-Polycarbonate-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	0.29 %	0.29 %	Sim. to ISO 62
Viscosity Test	56 cm ³ /g	56 cm ³ /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 °C	4.05 g/10 min @Load 2.65 lb, Temperature 572 °F	Calculated from Volume Flow Rate of 3 cm ³ /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ISO 2039-2
Tensile Strength at Break	95.0 MPa	13800 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/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180/4A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2

Thermal Properties	@Temperature 20.0 Metric °C	@Temperature 68.0 °F English °F	Comments
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	266 Â°F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 Â°C	266 Â°F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 Â°C	266 Â°F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	125 Â°C	257 Â°F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 Â°C	266 Â°F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
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 1.20 mm	@Thickness 0.0472 in	
Oxygen Index	35 %	35 %	ISO 4589-1/-2
Glow Wire Test	850 Â°C	1560 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	875 Â°C	1610 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	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.25	3.25	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.00090	0.00090	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	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	
Heat stabilized or stable to heat	Yes	
Injection molding	Yes	
Light stabilized or stable to light	Yes	
Other Extrusion	Yes	
Release Agent	Yes	
U.V. stabilized or stable to weather	Yes	
With Fillers	Yes	

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