

## Mitsubishi Xantar<sup>®</sup> G4F 22 R Polycarbonate-20% Glass Reinforced

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

### 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-G4F-22-R-Polycarbonate-20-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-G4F-22-R-Polycarbonate-20-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.29 %	0.29 %	Sim. to ISO 62
Viscosity Test	45 cm <sup>3</sup> /g	45 cm <sup>3</sup> /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	10.8 g/10 min @Load 1.20 kg, Temperature 300 °C	10.8 g/10 min @Load 2.65 lb, Temperature 572 °F	Calculated from Volume Flow Rate of 8 cm <sup>3</sup> /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/m <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/4A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 μm/m-°C	13.9 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)	145 °C	293 °F	ISO 75-1/-2
Vicat Softening Point	152 °C	306 °F	50°C/h 50N; ISO 306
UL RTI, Electrical	130 °C	266 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	125 °C	257 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	125 °C	257 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	35 %	35 %	ISO 4589-1/-2
Glow Wire Test	850 °C	1560 °F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	875 °C	1610 °F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 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	3.2	3.2	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	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	
Comparative Tracking Index	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	

Descriptive Properties	Value	Comments
Flame Retardant	Yes	
Flame Retarding Agent	Yes	
Heat stabilized or stable to heat	Yes	
Injection molding	Yes	
Release Agent	Yes	
With Fillers	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China