

Teijin Panlite® G-3330M Isotropic, Glass Fiber Reinforced Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

Reinforced with 30 % of special GF and least anisotropy grade, meeting UL 94 V-2. Applications: Mechanical, electric and electronic components that need good appearance and mechanical property Precision machinery components that need dimensional accuracy, particularly least anisotropy Components that need paint finish. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-G-3330M-Isotropic-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Water Absorption	0.12 %	0.12 %	in water, 23 [°] C, 24h; ISO 62
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm @Thickness 4.00 mm	0.0030 - 0.0050 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 4.00 mm	0.0030 - 0.0050 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	50mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	50mm/min; ISO 527
Tensile Modulus	3.80 GPa	551 ksi	1mm/min; ISO 527
Flexural Strength	95.0 MPa	13800 psi	2mm/min; ISO 178
Flexural Modulus	3.80 GPa	551 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	27.8 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO 11359
CTE, linear, Transverse to Flow	60.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	33.3 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO 11359

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	264 Â°F	ISO 75
Vicat Softening Point	142 Â°C	288 Â°F	50Â°C/hr, 50N; ISO 306
UL RTI, Electrical	130 Â°C @Thickness 1.47 mm	266 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	125 Â°C @Thickness 1.47 mm	257 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	130 Â°C @Thickness 1.47 mm	266 Â°F @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.5 @Frequency 100 Hz	3.5 @Frequency 100 Hz	IEC 60250
	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1e+6 Hz	0.0090 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	175 V	175 V	IEC 60112

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