

Teijin Panlite® G-3415R Glass Fiber Reinforced Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

GF 15% reinforced and mold release grade, meeting UL 94 V-2. Applications: Mechanical, electric and electronic components that need mechanical property e.g., stiffness Precision machinery components that need dimensional accuracy. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-G-3415R-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.15 %	0.15 %	in water, 23°C, 24h; ISO 62
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	50mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	50mm/min; ISO 527
Tensile Modulus	5.00 GPa	725 ksi	1mm/min; ISO 527
Flexural Strength	130 MPa	18900 psi	2mm/min; ISO 178
Flexural Modulus	4.40 GPa	638 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75

Thermal Properties Deflection Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
Vicat Softening Point	152 °C	306 °F	50°C/hr, 50N; ISO 306
UL RTI, Electrical	130 °C @Thickness 1.47 mm	266 °F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	125 °C @Thickness 1.47 mm	257 °F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	130 °C @Thickness 1.47 mm	266 °F @Thickness 0.0579 in	UL 746B
Flammability, UL94	HB @Thickness 0.430 mm	HB @Thickness 0.0169 in	
	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	
	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13$ ohm-cm	$\geq 1.00\text{e}+13$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ ohm	IEC 60093
Dielectric Constant	3.3 @Frequency 100 Hz	3.3 @Frequency 100 Hz	IEC 60250
	3.3 @Frequency 1e+6 Hz	3.3 @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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