

Teijin Panlite® GV-3410R High Flame Retardancy, Glass Fiber Reinforced Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

GF 10% reinforced, improved flame retardance 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-GV-3410R-High-Flame-Retardancy-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	0.16 %	0.16 %	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	0.0040 - 0.0060 cm/cm @Thickness 4.00 mm	0.0040 - 0.0060 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	50mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	50mm/min; ISO 527
Tensile Modulus	3.90 GPa	566 ksi	1mm/min; ISO 527
Flexural Strength	125 MPa	18100 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	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C @Temperature 20.0 °C	22.2 µin/in-°F @Temperature 68.0 °F	ISO 11359
CTE, linear, Transverse to Flow	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	ISO 11359
Deflection Temperature at 0.46 MPa	147 °C	297 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	144 °C	291 °F	ISO 75
Vicat Softening Point	149 °C	300 °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	120 °C @Thickness 1.47 mm	248 °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	V-2 @Thickness 0.430 mm	V-2 @Thickness 0.0169 in	
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	5VA @Thickness 2.50 mm	5VA @Thickness 0.0984 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	3.2 @Frequency 100 Hz	3.2 @Frequency 100 Hz	IEC 60250
	3.2 @Frequency 1e+6 Hz	3.2 @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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