

Teijin Panlite® G-3410R Glass Fiber Reinforced Polycarbonate Resin

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

Material Notes:

GF 10% 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-3410R-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 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	70.0 MPa	10200 psi	50mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	50mm/min; ISO 527
Tensile Modulus	3.70 GPa	537 ksi	1mm/min; ISO 527
Flexural Strength	120 MPa	17400 psi	2mm/min; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	5.50 J/cm ²	26.2 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	40.0 Åµm/m-Å°C @Temperature 20.0 Å°C	22.2 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359
CTE, linear, Transverse to Flow	60.0 Åµm/m-Å°C @Temperature 20.0 Å°C	33.3 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359
Deflection Temperature at 0.46 MPa	149 Å°C	300 Å°F	

(56 psi) Thermal Properties	Metric	English	ISO 75 Comments
Deflection Temperature at 1.8 MPa (264 psi)	144 Â°C	291 Â°F	ISO 75
Vicat Softening Point	151 Â°C	304 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	120 Â°C @Thickness 1.47 mm	248 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	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	>= 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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