

Teijin Panlite® GS-3410 Friction and Abrasion Resistant, Glass Fiber Reinforced Polycarbonate Resin

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

Material Notes:

GF 10% reinforced grade, meeting UL 94 V-2. It is compounded with fluorine powder to improve friction and abrasion resistance, maintaining excellent characteristics of polycarbonate resin. Applications: Mechanical, electric and electronic components that need abrasion and friction resistance. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-GS-3410-Friction-and-Abrasion-Resistant-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	0.14 %	0.14 %	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	4.00 GPa	580 ksi	1mm/min; ISO 527
Flexural Strength	110 MPa	16000 psi	2mm/min; ISO 178
Flexural Modulus	3.70 GPa	537 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	4.60 J/cm ²	21.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	1.20 J/cm ²	5.71 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	148 °C	298 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	144 °C	291 °F	ISO 75
Vicat Softening Point	151 °C	304 °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 0.380 mm	V-2 @Thickness 0.0150 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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