

Teijin Panlite® G-3120PH For Cameras, Glass Fiber Reinforced Polycarbonate Resin

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

Material Notes:

Reinforced with 30 % of special GF and improved appearance grade.Applications:Precision machinery, electric and electronic components that need dimensional accuracy and good appearance.Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-G-3120PH-For-Cameras-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	0.14 %	0.14 %	in water, 23 ^o 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	65.0 MPa	9430 psi	50mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	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	4.40 GPa	638 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 Åµm/m- ^o C	22.2 Åµin/in- ^o F	ISO 11359
	@Temperature 20.0 ^o C	@Temperature 68.0 ^o F	
CTE, linear, Transverse to Flow	60.0 Åµm/m- ^o C	33.3 Åµin/in- ^o F	ISO 11359
	@Temperature 20.0 ^o C	@Temperature 68.0 ^o F	
Deflection Temperature at 0.46 MPa	131 ^o C	268 ^o F	

(56 psi) Thermal Properties	Metric	English	ISO 75 Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	ISO 75
Vicat Softening Point	135 Â°C	275 Â°F	50Â°C/hr, 50N; ISO 306
UL RTI, Electrical	80.0 Â°C @Thickness 1.47 mm	176 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	80.0 Â°C @Thickness 1.47 mm	176 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	80.0 Â°C @Thickness 1.47 mm	176 Â°F @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-2 @Thickness 1.70 mm	V-2 @Thickness 0.0669 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	3.4 @Frequency 100 Hz	3.4 @Frequency 100 Hz	IEC 60250
	3.4 @Frequency 1e+6 Hz	3.4 @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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