

Teijin Panlite® GN-3410R Improved Mold Release, Glass Fiber Reinforced, Flame Resistant Polycarbonate Resin

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

Material Notes:

GF 10% reinforced, flame retardant 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-GN-3410R-Improved-Mold-Release-Glass-Fiber-Reinforced-Flame-Resistant-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Water Absorption	0.16 %	0.16 %	in water, 23 ^o 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	3.70 GPa	537 ksi	1mm/min; ISO 527
Flexural Strength	125 MPa	18100 psi	2mm/min; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	22.2 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO 11359
CTE, linear, Transverse to Flow	60.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0	33.3 $\mu\text{in/in-}^{\circ}\text{F}$	ISO 11359

Thermal Properties	°C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	ISO 75
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 1.50 mm	V-0 @Thickness 0.0591 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China