

Teijin Panlite® LN-3000RM High Light Reflection, Halogen-Free Flame Resistant Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Polycarbonate-resin-based halogen-free flame retardant and good light-reflection grade. It exhibits high light-reflection (over 96 %) at whole visible light range and also good light shut-out even at a thinner thickness portion. Applications: Electric and electronic components that need high light reflection and light shut-out. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-LN-3000RM-High-Light-Reflection-Halogen-Free-Flame-Resistant-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	in water, 23°C, 24h; ISO 62
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm @Thickness 4.00 mm	0.0040 - 0.0060 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	60.0 MPa	8700 psi	50mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	50mm/min; ISO 527
Elongation at Break	110 %	110 %	50mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1mm/min; ISO 527
Flexural Strength	93.0 MPa	13500 psi	2mm/min; ISO 178
Flexural Modulus	2.70 GPa	392 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Åµm/m-Å°C @Temperature 20.0	38.9 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO 11359

Thermal Properties	^{°C} Metric	English	Comments
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	98.0 $^{\circ}\text{C}$	208 $^{\circ}\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	92.0 $^{\circ}\text{C}$	198 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{hr}$, 50N; ISO 306
UL RTI, Electrical	80.0 $^{\circ}\text{C}$ @Thickness 1.47 mm	176 $^{\circ}\text{F}$ @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	80.0 $^{\circ}\text{C}$ @Thickness 1.47 mm	176 $^{\circ}\text{F}$ @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	80.0 $^{\circ}\text{C}$ @Thickness 1.47 mm	176 $^{\circ}\text{F}$ @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-2 @Thickness 0.400 mm	V-2 @Thickness 0.0157 in	
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13 \text{ ohm}\cdot\text{cm}$	$\geq 1.00\text{e}+13 \text{ ohm}\cdot\text{cm}$	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15 \text{ ohm}$	$\geq 1.00\text{e}+15 \text{ ohm}$	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	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.0055 @Frequency 100 Hz	0.0055 @Frequency 100 Hz	IEC 60250
	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	250 V	250 V	IEC 60112

Electrical Properties	Metric	English	Comments
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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