

Teijin Panlite® LN-1010RM High Light Reflection, Flame Resistant Polycarbonate Resin

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

Material Notes:

Polycarbonate-resin-base 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-1010RM-High-Light-Reflection-Flame-Resistant-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 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	50.0 MPa	7250 psi	50mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 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	2.50 GPa	363 ksi	1mm/min; ISO 527
Flexural Strength	91.0 MPa	13200 psi	2mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179

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

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	70.0 $\mu\text{m/m-}\text{Â}^\circ\text{C}$ @Temperature 20.0 $\text{Â}^\circ\text{C}$	126.0 $\mu\text{in/in-}\text{Â}^\circ\text{F}$ @Temperature 68.0 $\text{Â}^\circ\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	137 $\text{Â}^\circ\text{C}$	279 $\text{Â}^\circ\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	125 $\text{Â}^\circ\text{C}$	257 $\text{Â}^\circ\text{F}$	ISO 75
Vicat Softening Point	139 $\text{Â}^\circ\text{C}$	282 $\text{Â}^\circ\text{F}$	50 $\text{Â}^\circ\text{C/hr}$, 50N; ISO 306
UL RTI, Electrical	80.0 $\text{Â}^\circ\text{C}$ @Thickness 1.47 mm	176 $\text{Â}^\circ\text{F}$ @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	80.0 $\text{Â}^\circ\text{C}$ @Thickness 1.47 mm	176 $\text{Â}^\circ\text{F}$ @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	80.0 $\text{Â}^\circ\text{C}$ @Thickness 1.47 mm	176 $\text{Â}^\circ\text{F}$ @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-0 @Thickness 0.380 mm	V-0 @Thickness 0.0150 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13$ ohm-cm	$\geq 1.00\text{e}+13$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ 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	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.0027 @Frequency 100 Hz	0.0027 @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

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