

Teijin Panlite® LD-1000RM High Light Reflection Polycarbonate Resin

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

Material Notes:

Polycarbonate-resin-base good light-reflection grade. It exhibits high light-reflection (over 96 %) at whole visible light range and also 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-LD-1000RM-High-Light-Reflection-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 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	0.0040 - 0.0060 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	60.0 MPa	8700 psi	50mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 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	2.60 GPa	377 ksi	1mm/min; ISO 527
Flexural Strength	95.0 MPa	13800 psi	2mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179

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

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	ISO 75
Vicat Softening Point	139 °C	282 °F	50°C/hr, 50N; ISO 306
UL RTI, Electrical	125 °C @Thickness 1.47 mm	257 °F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	115 °C @Thickness 1.47 mm	239 °F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	125 °C @Thickness 1.47 mm	257 °F @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-2 @Thickness 0.440 mm	V-2 @Thickness 0.0173 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	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.0011 @Frequency 100 Hz	0.0011 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1e+6 Hz	0.0090 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	250 V	250 V	IEC 60112

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