

Panlite® LN-3050RM

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Flame resistant, High light reflection grade

General

Filler / Reinforcement	• Mineral		
Properties	• Flame Retardant	• High Reflectivity	
Uses	• LEDs	• Lighting Applications	• Reflectors
Appearance	• White		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.40 to 0.60	%	
Flow : 4.00 mm	0.40 to 0.60	%	
Water Absorption (24 hr, 23°C)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	58.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	55.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	100	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2400	MPa	ISO 178
Flexural Stress ² (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	123	°C	
RTI Elec (1.5 mm)	80.0	°C	UL 746B
RTI Imp (1.5 mm)	80.0	°C	UL 746B
RTI Str (1.5 mm)	80.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm, White)	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.5 mm	960	°C	
3.0 mm	960	°C	

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Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature			IEC 60695-2-13
1.5 mm	825	°C	
3.0 mm	850	°C	

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 to 8.0	hr	
Processing (Melt) Temp	270 to 300	°C	
Mold Temperature	80 to 120	°C	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 mm/min