

Panlite® LN-3090RM

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Flame resistant, High light reflection grade, Extrusion molding grade

General

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

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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	75	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2430	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)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	125	°C	
RTI Elec (0.43 mm)	80.0	°C	UL 746B
RTI Imp (0.43 mm)	80.0	°C	UL 746B
RTI Str (0.43 mm)	80.0	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.43 mm	V-2		
1.5 mm	V-0		

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Melt Temperature	270 to 300	°C
Die Temperature	70 to 120	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min