

Panlite® LN-5000RM

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
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	2.0	cm ³ /10min	ISO 1133
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)	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	6.0	%	ISO 527-2/50
Tensile Strain (Break, 23°C)	15	%	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)	30	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	124	°C	
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.0E-5	cm/cm/°C	ISO 11359-2
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
Electric Strength	32	kV/mm	IEC 60243-1

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)		V-0	UL 94

Notes

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