

Panlite® LN-5000RM

Polycarbonate

TEIJIN LIMITED

Message:

High light reflection grade (Non-bromine/Non-phosphor type)

General Information			
UL YellowCard	E50075-101665059		
Features	High reflectivity		
	Phosphorus content, low (to none)		
	Bromine-free		
	Flame retardancy		
Uses	Electrical components		
	Reflector		
	Automotive exterior parts		
	Business equipment		
Appearance	White		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	2.00	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.40 - 0.60	%	Internal method
Flow: 4.00mm	0.40 - 0.60	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	58.0	MPa	ISO 527-2/50
Fracture	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.0	%	ISO 527-2/50
Fracture	15	%	ISO 527-2/50
Flexural Modulus ¹	2430	MPa	ISO 178
Flexural Stress ²	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
Heat Deflection Temperature (1.8 MPa, Unannealed)	124	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	80.0	°C	UL 746
RTI Imp (1.5 mm)	80.0	°C	UL 746
RTI (1.5 mm)	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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