

Panlite® LD-1000RM

Polycarbonate

TEIJIN LIMITED

Message:

High light reflection grade, Anti-environmental pollution type (Non-bromine/Non-phosphor type)

General Information			
UL YellowCard	E50075-241802	E244324-101516702	
Features	High Reflectivity		
Uses	LEDs		
	Lighting Applications		
	Reflectors		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
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 (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	60.0	MPa	
Break	60.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	110	%	
Flexural Modulus ¹	2400	MPa	ISO 178
Flexural Stress ²	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	40	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	137	°C	ISO 75-2/B
1.8 MPa, Unannealed	128	°C	ISO 75-2/A
Vicat Softening Temperature	139	°C	ISO 306/B50

CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	
Transverse	7.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	125	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Str (1.50 mm)	125	°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
Electric Strength ³	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.40		
1 MHz	3.40		
Dissipation Factor			IEC 60250
100 Hz	1.1E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ⁴ (0.440 mm)	V-2		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		
4.	white		

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