

Panlite® LN-2520A

Polycarbonate

TEIJIN LIMITED

Message:

Flame resistant grade, Non-bromine/non-phosphor type

General Information			
UL YellowCard	E50075-319322	E244324-101516708	
Features	Bromine Free		
	Flame Retardant		
	Good Mold Release		
	Ultra Low Viscosity		
Uses	Electrical Parts		
	General Purpose		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.50 to 0.70	%	
Flow : 4.00 mm	0.50 to 0.70	%	
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	64.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	7.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/50
Flexural Modulus ¹	2280	MPa	ISO 178
Flexural Stress ²	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	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	141	°C	ISO 75-2/B

1.8 MPa, Unannealed	127	°C	ISO 75-2/A
Vicat Softening Temperature	148	°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)	130	°C	UL 746
RTI Imp (1.50 mm)	125	°C	UL 746
RTI Str (1.50 mm)	130	°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	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-0		
2.00 mm	5VB		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	930	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	850	°C	
3.00 mm	850	°C	
Optical	Nominal Value		Test Method
Transmittance (3.00 mm)	Translucent		ASTM D1003
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

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