Panlite® LN-3520ZH

Polycarbonate

TEIJIN LIMITED

Message:

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

General Information			
UL YellowCard	E50075-101369921	E244324-101516742	
Features	Phosphorus content, low (to none) Good weather resistance Bromine-free Flame retardancy		
Uses	Electrical components Electrical housing		
Appearance	milky white		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	11.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.50 - 0.70	%	Internal method
Flow: 4.00mm	0.50 - 0.70	%	Internal method
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)	66.0	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]	2340	MPa	ISO 178
Flexural Stress [2]	97.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	15	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	141	°C	ISO 75-2/B

1.8 MPa, not annealed	127	°C	ISO 75-2/A
Vicat Softening Temperature	148	°C	ISO 306/B50
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)	130	°C	UL 746
RTI Imp (1.5 mm)	125	°C	UL 746
RTI (1.5 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
Dielectric Strength	32	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.10		IEC 60250
1 MHz	3.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	9.0E-3		IEC 60250
1 MHz	9.0E-3		IEC 60250
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.0 mm)	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm	930	°C	IEC 60695-2-12
3.0 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.0 mm	850	°C	IEC 60695-2-13
3.0 mm	850	°C	IEC 60695-2-13
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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