

Panlite® LN-3520ZL

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

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

General

Properties	- Bromine Free - Flame Retardant	- Low (to None) Phosphorus Content - UV Resistant
Uses	Electrical Parts	General Purpose
Appearance	Opaque	
Forms	Pellets	
Processing Method	Injection Molding	

ASTM & ISO Properties ¹

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	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	%	
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	61.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	100	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2290	MPa	ISO 178
Flexural Stress ² (23°C)	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	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	125	°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 (1.0 mm)	130	°C	UL 746B
RTI Imp (1.0 mm)	125	°C	UL 746B
RTI Str (1.0 mm)	130	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.0 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr

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Injection	Nominal Value	Unit
Processing (Melt) Temp	270 to 320	°C
Mold Temperature	80 to 120	°C

Notes

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