

Panlite® GN-3610Z

Polycarbonate

TEIJIN LIMITED

Message:

Glass fiber reinforced grades-10% Glass fiber, Flame resistant grade, Non-bromine/non-phosphor type, Weather resistant

General Information			
UL YellowCard	E50075-101010134		
Features	Bromine Free		
	Flame Retardant		
	Good Creep Resistance		
	Good Weather Resistance		
	High Rigidity		
Uses	Low (to None) Phosphorus Content		
	Electrical Parts		
	Electrical/Electronic Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.40 to 0.60	%	
Flow : 4.00 mm	0.30 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	67.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	3600	MPa	ISO 178
Flexural Stress ²	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	138	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50

CLTE			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	80.0	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI Str (1.50 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
Electric Strength ³	35	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm	V-2		
1.00 mm	V-1		
1.60 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
1.60 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	825	°C	
1.60 mm	850	°C	
3.00 mm	850	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

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