

Panlite® G-3110PH

Polycarbonate

TEIJIN LIMITED

Message:

Glass fiber reinforced grades-10% Glass fiber, High-appearance camera grade

General Information			
UL YellowCard	E50075-241756	E244324-101516658	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Creep Resistance		
	Good Surface Finish		
	High Rigidity		
	Low Anisotropy		
Uses	Camera 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	0.35 to 0.55	%	
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Stress (Break)	65.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	%	ISO 527-2/5
Flexural Modulus ¹	3100	MPa	ISO 178
Flexural Stress ²	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	55	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	123	°C	ISO 75-2/A
Vicat Softening Temperature	134	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	5.0E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	

RTI Elec (1.70 mm)	130	°C	UL 746
RTI Imp (1.70 mm)	120	°C	UL 746
RTI Str (1.70 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	35	kV/mm	IEC 60243-1
Relative Permittivity			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	HB		
1.70 mm	V-2		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

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