

Panlite® GN-3610PH

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

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

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Properties	• Flame Retardant • Good Surface Finish • High Rigidity • Low Anisotropy
Uses	• Camera Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	59.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2/5
Flexural Modulus ² (23°C)	3000	MPa	ISO 178
Flexural Stress ² (23°C)	101	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	123	°C	ISO 75-2/A
CLTE - Flow	5.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	6.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	80.0	°C	UL 746B
RTI Imp (1.5 mm)	80.0	°C	UL 746B
RTI Str (1.5 mm)	80.0	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94

Processing Information

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