

Panlite® G-3510M

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Glass fiber reinforced grades - 10% Glass fiber, Isotropy grade

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Properties	• Creep Resistant	• 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	0.50 to 0.70	%	
Flow : 4.00 mm	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	50	%	ISO 527-2/5
Flexural Modulus ² (23°C)	2600	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)	8.0	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	129	°C	
CLTE - Flow	6.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	6.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	130	°C	UL 746B
RTI Imp (1.5 mm)	120	°C	UL 746B
RTI Str (1.5 mm)	130	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.43 mm)	HB		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