

Panlite® GM-5130XI

TEIJIN LIMITED - Polycarbonate + Polyester

General Information

Product Description

Polycarbonate/Polyester alloy, Glass fiber mixed, Low anisotropy grade

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Properties	• Creep Resistant • High Rigidity • Low Anisotropy
Uses	• Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	0.10 to 0.30	%	
Flow : 2.00 mm	0.020 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	122	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2/5
Flexural Modulus ² (23°C)	9000	MPa	ISO 178
Flexural Stress ² (23°C)	169	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	43	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	136	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	5.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (0.8 mm)	80.0	°C	UL 746B
RTI Imp (0.8 mm)	80.0	°C	UL 746B
RTI Str (0.8 mm)	80.0	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-2		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