

# Panlite® GM-5045NI

TEIJIN LIMITED - Polycarbonate + Polyester

## General Information

### Product Description

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

### General

Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
Properties	• Creep Resistant • High Rigidity • Flame Retardant • Low Anisotropy
Uses	• Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.30 to 0.40	%	
Flow : 4.00 mm	0.10 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.6	%	ISO 527-2/5
Flexural Modulus <sup>2</sup> (23°C)	14200	MPa	ISO 178
Flexural Stress <sup>2</sup> (23°C)	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	145	°C	ISO 75-2/A
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	4.5E-5	cm/cm/°C	ISO 11359-2
RTI Elec (0.75 mm)	80.0	°C	UL 746B
RTI Imp (0.75 mm)	80.0	°C	UL 746B
RTI Str (0.75 mm)	80.0	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 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	300 to 320	°C
Mold Temperature	80 to 120	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min