

Panlite® D-5025B

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Mineral filler reinforced

General

Filler / Reinforcement	• Mineral, 25% Filler by Weight
Properties	• Thermally Conductive
Uses	• Electrical Housing
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.25 to 0.45	%	
Flow : 4.00 mm	0.25 to 0.45	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2/5
Flexural Modulus ² (23°C)	5000	MPa	ISO 178
Flexural Stress ² (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	133	°C	
CLTE - Flow	3.5E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	3.5E-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)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	280 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