



Panlite® BN-5520R

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Carbon fiber/Glass fiber reinforced, Flame resistant, Non-bromine/non phosphor type

General

Filler / Reinforcement	• Glass Fiber\Carbon Fiber		
Properties	• Creep Resistant	• Flame Retardant	• High Rigidity
Uses	• Industrial Applications		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	105	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)	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	145	°C	
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			UL 94
0.75 mm	V-2		
1.5 mm	V-1		
3.0 mm	V-0		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min