

Panlite® BN-8120R

Polycarbonate

TEIJIN LIMITED

Message:

Carbon fiber reinforced grades-20% Carbon fiber, Flame resistant

General Information			
UL YellowCard	E50075-241737	E244324-101516645	
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Good Creep Resistance		
	High Rigidity		
Uses	Electrical Parts		
	Industrial Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.30 to 0.50	%	
Flow : 4.00 mm	0.020 to 0.20	%	
Water Absorption (23°C, 24 hr)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2/1
Tensile Stress (Break)	135	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	11500	MPa	ISO 178
Flexural Stress ²	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	149	°C	ISO 75-2/B
1.8 MPa, Unannealed	147	°C	ISO 75-2/A
Vicat Softening Temperature	151	°C	ISO 306/B50
CLTE			ISO 11359-2

Flow	2.0E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	80.0	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI Str (1.50 mm)	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 1.0E+2	ohms	IEC 60093
Volume Resistivity	10 to 1.0E+3	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		
1.50 mm	V-0		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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