

Panlite® BN-8110R

Polycarbonate

TEIJIN LIMITED

Message:

Carbon fiber reinforced grades-10% Carbon fiber, Flame resistant

General Information			
UL YellowCard	E50075-241737	E244324-101516645	
Filler / Reinforcement	Carbon Fiber,10% 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	1.26	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.40 to 0.60	%	
Flow : 4.00 mm	0.10 to 0.30	%	
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/1
Tensile Stress (Break)	115	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ¹	7200	MPa	ISO 178
Flexural Stress ²	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	30	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	146	°C	ISO 75-2/A
Vicat Softening Temperature	152	°C	ISO 306/B50
CLTE			ISO 11359-2

Flow	3.0E-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	10 to 1.0E+3	ohms	IEC 60093
Volume Resistivity	1.0E+2 to 1.0E+4	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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