

Panlite® B-8120R

Polycarbonate

TEIJIN LIMITED

Message:

Carbon fiber reinforced grades-20% Carbon fiber

General Information			
UL YellowCard	E50075-241735	E244324-101516638	
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Good Creep Resistance		
	High Rigidity		
Uses	Camera Applications		
	Industrial Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	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	13600	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	12000	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	25	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	152	°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		
3.00 mm	V-1		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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