

Panlite® BH-8120R

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Carbon fiber reinforced grades-20% Carbon fiber

General

Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight
Properties	• Creep Resistant • 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)	160	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Flexural Modulus ² (23°C)	15000	MPa	ISO 178
Flexural Stress ² (23°C)	210	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)	29	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	146	°C	ISO 75-2/A

Notes

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

² 2.0 mm/min