

# Panlite® B-7110R

## TEIJIN LIMITED - Polycarbonate

### General Information

#### Product Description

Carbon fiber reinforced grades-10% Carbon fiber

#### General

Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Properties	• Creep Resistant • High Rigidity
Uses	• Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Flexural Modulus <sup>2</sup> (23°C)	7300	MPa	ISO 178
Flexural Stress <sup>2</sup> (23°C)	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	32	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	146	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+2	ohms	IEC 60093
Volume Resistivity	1.0E+2 to 1.0E+3	ohms·cm	IEC 60093

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	270 to 320	°C
Mold Temperature	80 to 120	°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min