

# Panlite® B-4130R

## TEIJIN LIMITED - Polycarbonate

### General Information

#### Product Description

Carbon fiber reinforced grades-30% Carbon fiber

#### General

Filler / Reinforcement	• Carbon Fiber, 30% 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	1.33	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.30 to 0.50	%	
Flow : 4.00 mm	0.010 to 0.15	%	
Water Absorption (24 hr, 23°C)	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	18200	MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Flexural Modulus <sup>2</sup> (23°C)	16000	MPa	ISO 178
Flexural Stress <sup>2</sup> (23°C)	195	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)	24	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	149	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	147	°C	
Vicat Softening Temperature	152	°C	ISO 306/B50
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	5.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	80.0	°C	UL 746B
RTI Imp (1.5 mm)	80.0	°C	UL 746B
RTI Str (1.5 mm)	80.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 10	ohms	IEC 60093
Volume Resistivity	1.0 to 1.0E+2	ohms·cm	IEC 60093

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-2		UL 94

### 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