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Panlite® BE-4115

TEIJIN LIMITED - Polycarbonate

General Information

Product Description			
Carbon fiber reinforced grades-15% Carbon fiber, Frictional wear resistant grade			
General			
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Properties	• Creep Resistant	• High Rigidity	• Wear Resistant
Uses	• Industrial Applications		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	142	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2/5
Flexural Modulus [2] (23°C)	9740	MPa	ISO 178
Flexural Stress [2] (23°C)	191	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	10	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	145	°C	
RTI Elec (0.8 mm)	80.0	°C	UL 746B
RTI Imp (0.8 mm)	80.0	°C	UL 746B
RTI Str (0.8 mm)	80.0	°C	UL 746B
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

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

[2] 2.0 mm/min