+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Panlite® GN-3430R

TEIJIN LIMITED - Polycarbonate

General Information

Product Description			
Glass fiber reinforced grades - 30% Glass fiber, Flame resistant grade			
General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Properties	• Creep Resistant	• Flame Retardant	• High Rigidity
Uses	• Electrical Parts	• Industrial Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm³	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 (24 hr, 23°C)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	8200	MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	105	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/5
Flexural Modulus [2] (23°C)	7300	MPa	ISO 178
Flexural Stress [2] (23°C)	155	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)	35	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	151	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	148	°C	
Vicat Softening Temperature	153	°C	ISO 306/B50
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	6.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	130	°C	UL 746B
RTI Imp (1.5 mm)	120	°C	UL 746B
RTI Str (1.5 mm)	130	°C	UL 746B

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength [3]	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.50		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	175	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.43 mm	V-2		
1.5 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm	960	°C	
3.0 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.0 mm	900	°C	
3.0 mm	875	°C	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	> 5.0	hr
Processing (Melt) Temp	290 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

[3] short time test