

Panlite® GN-3430R

Polycarbonate

TEIJIN LIMITED

Message:

Glass fiber reinforced grades-30% Glass fiber, Flame resistant grade

General Information			
UL YellowCard	E50075-241778	E244324-101516684	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good Creep Resistance		
	High Rigidity		
Uses	Electrical Parts		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	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 (23°C, 24 hr)	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	ISO 527-2/1
Tensile Stress (Break)	105	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ¹	7300	MPa	ISO 178
Flexural Stress ²	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	35	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	151	°C	ISO 75-2/B
1.8 MPa, Unannealed	148	°C	ISO 75-2/A
Vicat Softening Temperature	153	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	

Transverse	6.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	130	°C	UL 746
RTI Imp (1.50 mm)	120	°C	UL 746
RTI Str (1.50 mm)	130	°C	UL 746
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
0.430 mm	V-2		
1.50 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	900	°C	
3.00 mm	875	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

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