Panlite® GS-3420

Polycarbonate

TEIJIN LIMITED

Message:

Glass fiber reinforced grades-20% Glass fiber, Frictional wear resistant grade

General Information			
UL YellowCard	E50075-241784	E244324-101516692	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Creep Resistance Good Wear Resistance High Rigidity		
Uses	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.42	g/cm³	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	%	
Water Absorption (23°C, 24 hr)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus [1]	5500	MPa	ISO 178
Flexural Stress [2]	133	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	12	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	43	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	149	°C	ISO 75-2/B
1.8 MPa, Unannealed	146	°C	ISO 75-2/A
Vicat Softening Temperature	152	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	3.0E-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
Dielectric Constant			IEC 60250
100 Hz	3.40		
1 MHz	3.40		
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
0.380 mm	V-2		
3.00 mm	V-1		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

Recommended distributors for this material

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