

Panlite® G-3420H

Polycarbonate

TEIJIN LIMITED

Message:

Glass fiber reinforced grades-20% Glass fiber, Low anisotropy grade

General Information			
UL YellowCard	E50075-101629066	E244324-101516669	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Creep Resistance		
	High Rigidity		
	Low Anisotropy		
Uses	Camera Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.40 to 0.60	%	
Flow : 4.00 mm	0.20 to 0.40	%	
Water Absorption (23°C, 24 hr)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	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	5000	MPa	ISO 178
Flexural Stress ²	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	58	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	143	°C	ISO 75-2/B
1.8 MPa, Unannealed	137	°C	ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	4.0E-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)	125	°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	3.40		
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
0.430 mm	HB		
0.800 mm	V-2		
3.00 mm	V-1		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	short time test		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

