

Panlite® G-3410H

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Glass fiber reinforced grades-10% Glass fiber, Low anisotropy grade

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Properties	• Creep Resistant	• High Rigidity	• Low Anisotropy
Uses	• Camera Applications	• Industrial Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.40 to 0.60	%	
Flow : 4.00 mm	0.30 to 0.50	%	
Water Absorption (24 hr, 23°C)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3300	MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	70.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2/5
Flexural Modulus ² (23°C)	3400	MPa	ISO 178
Flexural Stress ² (23°C)	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	142	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	135	°C	
Vicat Softening Temperature	145	°C	ISO 306/B50
CLTE - Flow	5.0E-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	3.20		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Arc Resistance	100	sec	ASTM D495
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.43 mm	HB		
0.8 mm	V-2		
3.0 mm	V-1		

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