

General Information

Product Description

Glass Fiber Reinforced, GF30%

General

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|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Uses | • General Purpose |

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	4.8	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.25 to 0.45	%	
Flow	0.050 to 0.25	%	
Water Absorption (Saturation, 23°C)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8900	MPa	ISO 527-1/1
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ²	8500	MPa	ISO 178
Flexural Stress ²	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	148	°C	ISO 75-2/B
1.8 MPa, Unannealed	144	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.8E-5	cm/cm/°C	
Transverse	6.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	32	kV/mm	
3.00 mm	20	kV/mm	



Iupilon™ GSH2030R2
Mitsubishi Engineering-Plastics Corp - Polycarbonate

Electrical	Nominal Value	Unit	Test Method
Dielectric Constant			IEC 60250
1 MHz	3.50		
100 MHz	3.60		
Dissipation Factor			IEC 60250
1 MHz	8.4E-3		
100 MHz	1.1E-3		
Comparative Tracking Index (CTI)	PLC 4		UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	HB		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	120	°C	
Drying Time - Hot Air Dryer	4.0 to 8.0	hr	
Rear Temperature	290 to 310	°C	
Middle Temperature	290 to 310	°C	
Front Temperature	290 to 310	°C	
Nozzle Temperature	290 to 310	°C	
Mold Temperature	80 to 120	°C	

