

General Information**Product Description**

Flame retardant (highly), Glass Fiber Reinforced (GF30%)

General

Filler / Reinforcement • Glass Fiber, 30% Filler by Weight

Features • Flame Retardant

Uses • General Purpose

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.45	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	9000	MPa	ISO 527-1/1
Tensile Stress (Break)	103	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ²	8500	MPa	ISO 178
Flexural Stress ²	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	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	145	°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
Comparative Tracking Index (CTI)	PLC 4		UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94



Iupilon™ GS2030MN1
Mitsubishi Engineering-Plastics Corp - Polycarbonate

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

