

Iupilon™ GPN2030DF

Mitsubishi Engineering-Plastics Corp - Polycarbonate

General Information

Product Description

Reinforced (30%); Flame retard. (Phosphoric acid); Low Warpage; High Flowability

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Flame Retardant	• High Flow	• Low Warpage
Uses	• General Purpose		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	9.4	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.4	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.050 to 0.25	%	
Flow	0.050 to 0.25	%	
Water Absorption (Saturation, 23°C)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	ISO 527-1/1
Tensile Stress (Break)	72.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.9	%	ISO 527-2/5
Flexural Modulus ²	7700	MPa	ISO 178
Flexural Stress ²	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	124	°C	ISO 75-2/B
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.7E-5	cm/cm/°C	
Transverse	3.3E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94



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Processing Information		
Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	100	°C
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	280 to 300	°C
Middle Temperature	280 to 300	°C
Front Temperature	280 to 300	°C
Nozzle Temperature	280 to 300	°C
Mold Temperature	60 to 100	°C

