Iupilon™ GSH2030KR

Mitsubishi Engineering-Plastics Corp - *Polycarbonate*

General Information

Product Description

Glass Fiber Reinforced (High Flow), GF30%

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Flow
Uses	• General Purpose

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	5.5	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.25 to 0.45	%	
Flow	0.050 to 0.25	%	
Water Absorption (Saturation, 73°F)	0.090	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.26E+6	psi	ISO 527-1/1
Tensile Stress (Break)	16800	psi	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus [2]	1.17E+6	psi	ISO 178
Flexural Stress [2]	25400	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength (73°F)	21	ft·lb/in²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	293	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	286	°F	ISO 75-2/A
CLTE - Flow	1.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	3.5E-5	in/in/°F	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 4		UL 746A

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.016 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	248	°F
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	554 to 590	°F
Middle Temperature	554 to 590	°F
Front Temperature	554 to 590	°F
Nozzle Temperature	554 to 590	°F
Mold Temperature	176 to 248	°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min