

Iupilon® GSH2030R2

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® GSH2030R2 is a Polycarbonate (PC) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupilon® GSH2030R2: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
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)	4.80	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.25 to 0.45	%	
Flow : 3.20 mm	0.050 to 0.25	%	
Water Absorption (Saturation, 23°C)	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8900	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	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
Heat Deflection Temperature			
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	
Relative Permittivity			IEC 60250
100 Hz	3.60		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	1.1E-3		
1 MHz	8.4E-3		
Comparative Tracking Index (CTI)	PLC 4		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	270 to 290	°C	
Middle Temperature	280 to 300	°C	
Front Temperature	290 to 310	°C	
Nozzle Temperature	290 to 310	°C	
Mold Temperature	80.0 to 120	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 100	rpm	

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