Iupilon® GSH2020TR 9005

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® GSH2020TR 9005 is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Iupilon® GSH2020TR 9005 are:
Flame Rated
Good Aesthetics
Typical application of Iupilon® GSH2020TR 9005: Electrical/Electronic Applications

General Information			
UL YellowCard	E41179-231898		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Surface Finish		
Uses	Camera Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.35	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	9.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	8.20	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.30 to 0.50	%	
Flow : 3.20 mm	0.10 to 0.30	%	
Water Absorption (Saturation, 23°C)	0.11	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5800	MPa	ISO 527-2
Tensile Stress (Break)	89.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	5100	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	137	°C	ISO 75-2/B
1.8 MPa, Unannealed	133	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	

Transverse	6.0E-5	cm/cm/°C	
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 3		UL 746
Flammability	Nominal Value		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	280 to 300	°C	
Nozzle Temperature	280 to 300	°C	
Mold Temperature	80.0 to 120	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 100	rpm	

Recommended distributors for this material

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