

Iupilon® GPX2050DF

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® GPX2050DF is a Polycarbonate (PC) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® GPX2050DF are:

Flame Rated

Flame Retardant

High Flow

High Stiffness

General Information			
UL YellowCard	E41179-543270		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Flow		
	High Stiffness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.9	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	5.30	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.050 to 0.20	%	
Flow : 3.20 mm	0.050 to 0.20	%	
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ISO 527-2
Tensile Stress (Break)	122	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	14200	MPa	ISO 178
Flexural Stress	208	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	36	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	2.6E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (2.00 mm)	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	260 to 290	°C	
Middle Temperature	270 to 300	°C	
Front Temperature	280 to 300	°C	
Nozzle Temperature	280 to 300	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 100	rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

