

Iupilon® GMB1110

Polycarbonate + Polyester

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® GMB1110 is a Polycarbonate + Polyester (PC+Polyester) material filled with 10% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupilon® GMB1110: Chemical Resistant.

Typical application of Iupilon® GMB1110: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Chemical Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.6	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.90	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.30 to 0.50	%	
Flow : 3.20 mm	0.20 to 0.40	%	
Water Absorption (Saturation, 23°C)	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4400	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	3600	MPa	ISO 178
Flexural Stress	134	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	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	138	°C	ISO 75-2/B
1.8 MPa, Unannealed	133	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	4.5E-5	cm/cm/°C	
Transverse	7.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 8.0	hr	

Rear Temperature	250 to 270	°C
Middle Temperature	260 to 280	°C
Front Temperature	270 to 290	°C
Nozzle Temperature	270 to 290	°C
Mold Temperature	60.0 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

