

Iupilon® TMB1412

Polycarbonate + ABS

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® TMB1412 is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® TMB1412 are:

Flame Rated

High Stiffness

General Information			
UL YellowCard	E41179-100507065		
Features	High Stiffness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.15 to 0.35	%	
Flow : 3.20 mm	0.15 to 0.35	%	
Water Absorption (Saturation, 23°C)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2
Tensile Stress (Yield)	58.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.6	%	ISO 527-2
Nominal Tensile Strain at Break	10	%	ISO 527-2
Flexural Modulus	4200	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	150	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	89.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating (1.00 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	4.0 to 8.0	hr
Rear Temperature	210 to 250	°C
Middle Temperature	220 to 260	°C
Front Temperature	230 to 270	°C
Nozzle Temperature	230 to 270	°C
Mold Temperature	50.0 to 70.0	°C
Injection Pressure	50.0 to 150	MPa
Screw Speed	30 to 50	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

