

Iupilon® H-3000

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® H-3000 is a polycarbonate (PC) material. This product is available in North America, Europe or Asia Pacific region. The processing method is injection molding. Iupilon® The main characteristics of the H-3000 are: high liquidity.

General Information			
UL YellowCard	E41179-231923		
Features	High liquidity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	30	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	28.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Vertical flow direction: 3.20mm	0.50 - 0.70	%	
Flow direction: 3.20mm	0.50 - 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.6	%	ISO 527-2
Nominal Tensile Strain at Break	120	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	136	°C	ISO 75-2/B
1.8 MPa, not annealed	123	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	ISO 11359-2
Lateral	6.6E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms · cm	IEC 60093

Dielectric Strength			IEC 60243-1
1.00 mm	31	kV/mm	IEC 60243-1
3.00 mm	18	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		IEC 60250
1 MHz	3.10		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	6.0E-4		IEC 60250
1 MHz	9.0E-3		IEC 60250
Comparative Tracking Index (CTI)	PLC 2		UL 746

Additional Information

H-3000V(R): V-2H-3000R: Mold ReleaseH-3000U(R): UV Stabilized

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 - 8.0	hr
Rear Temperature	260 - 280	°C
Middle Temperature	270 - 290	°C
Front Temperature	270 - 290	°C
Nozzle Temperature	270 - 290	°C
Mold Temperature	70.0 - 100	°C
Injection Pressure	50.0 - 150	MPa
Screw Speed	50 - 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

