

Iupilon® HL-7001

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® HL-7001 is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® HL-7001 are:

Flame Rated

High Flow

General Information			
UL YellowCard	E41179-231925		
Features	High Flow		
Forms	Pellets		
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)	110	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	108	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.40 to 0.60	%	
Flow : 3.20 mm	0.40 to 0.60	%	
Water Absorption (Saturation, 23°C)	0.24	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	64.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.5	%	ISO 527-2
Nominal Tensile Strain at Break	87	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	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, Unannealed	132	°C	ISO 75-2/B
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	
Transverse	6.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	31	kV/mm	
3.00 mm	18	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	6.0E-4		
1 MHz	9.0E-3		
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.380 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	260 to 320	°C	
Middle Temperature	270 to 330	°C	
Front Temperature	280 to 340	°C	
Nozzle Temperature	280 to 340	°C	
Mold Temperature	80.0 to 120	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 150	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



WECHAT