

Iupilon® H-4000

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® H-4000 is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Typical application of Iupilon® H-4000: Electrical/Electronic Applications

General Information			
UL YellowCard	E41179-231924		
Uses	Optical Data Storage		
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)	63	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	60.0	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	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield)	63.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.5	%	ISO 527-2
Nominal Tensile Strain at Break	76	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	94.0	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)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed	123	°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
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 to 8.0	hr
Rear Temperature	280 to 340	°C
Middle Temperature	300 to 360	°C
Front Temperature	320 to 390	°C
Nozzle Temperature	310 to 390	°C
Mold Temperature	50.0 to 130	°C
Injection Pressure	50.0 to 150	MPa
Screw Speed	200 to 400	rpm

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