

Iupilon® EHR3100

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® EHR3100 is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® EHR3100 are:

Flame Rated

Halogen Free

General Information			
UL YellowCard	E41179-231845		
Features	Bromine Free		
	High Reflectivity		
	Low (to None) Phosphorus Content		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	24	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	22.0	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)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	53.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	55	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	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	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ISO 75-2/A
CLTE			ISO 11359-2

Flow	6.2E-5	cm/cm/°C	
Transverse	6.3E-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
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	240 to 260	°C	
Middle Temperature	250 to 270	°C	
Front Temperature	260 to 280	°C	
Nozzle Temperature	260 to 280	°C	
Mold Temperature	70.0 to 100	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 100	rpm	

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Recommended distributors for this material

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