

Iupilon® EGN2010R2

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® EGN2010R2 is a Polycarbonate (PC) material filled with 10% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® EGN2010R2 are:

Flame Rated

Flame Retardant

Halogen Free

General Information			
Filler / Reinforcement	Glass Fiber, 10% Filler by Weight		
Additive	Flame Retardant		
Features	Bromine Free		
	Flame Retardant		
	Low (to None) Phosphorus Content		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 3.20 mm	0.40 to 0.80	%	
Flow : 3.20 mm	0.30 to 0.50	%	
Water Absorption (Saturation, 23°C)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4400	MPa	ISO 527-2
Tensile Stress (Break)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3600	MPa	ISO 178
Flexural Stress	129	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	141	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	
Transverse	6.7E-5	cm/cm/°C	

Electrical	Nominal Value	Test Method
Comparative Tracking Index (CTI)	PLC 3	UL 746
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
0.750 mm	V-2	
1.50 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 to 8.0	hr
Rear Temperature	270 to 290	°C
Middle Temperature	280 to 300	°C
Front Temperature	280 to 300	°C
Nozzle Temperature	280 to 300	°C
Mold Temperature	80.0 to 120	°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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