

Iupilon® EGN2020DR 9913A

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® EGN2020DR 9913A is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® EGN2020DR 9913A are:

Flame Rated

Flame Retardant

Good Aesthetics

Halogen Free

General Information			
UL YellowCard	E41179-231841		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Bromine Free		
	Flame Retardant		
	Good Surface Finish		
	Low (to None) Phosphorus Content		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 3.20 mm	0.25 to 0.45	%	
Flow : 3.20 mm	0.15 to 0.35	%	
Water Absorption (Saturation, 23°C)	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	84.0	MPa	ISO 527-2
Tensile Strain (Break)	3.1	%	ISO 527-2
Flexural Modulus	5300	MPa	ISO 178
Flexural Stress	139	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	142	°C	ISO 75-2/B
1.8 MPa, Unannealed	137	°C	ISO 75-2/A
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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