

Iupilon® EGW2020DR 9005

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® EGW2020DR 9005 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® EGW2020DR 9005 are:

Flame Rated

Flame Retardant

Good Aesthetics

Halogen Free

General Information			
UL YellowCard	E41179-100180425		
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)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	5300	MPa	ISO 178
Flexural Stress	137	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)	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	144	°C	ISO 75-2/B
1.8 MPa, Unannealed	139	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
1.00 mm	V-1	
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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