

Iupilon® ECF2010R

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® ECF2010R is a Polycarbonate (PC) material filled with 10% carbon fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® ECF2010R are:

Flame Rated

Flame Retardant

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 3.20 mm	0.25 to 0.45	%	
Flow : 3.20 mm	0.050 to 0.25	%	
Water Absorption (Saturation, 23°C)	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	113	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	7200	MPa	ISO 178
Flexural Stress	160	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)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed	146	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 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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