

Iupilon® CFH2020

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® CFH2020 is a Polycarbonate (PC) material filled with 20% carbon fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupilon® CFH2020: Flame Rated.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.8	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	4.20	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.20 to 0.40	%	
Flow : 3.20 mm	0.050 to 0.20	%	
Water Absorption (Saturation, 23°C)	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	141	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	12500	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	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	151	°C	ISO 75-2/B
1.8 MPa, Unannealed	146	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	9.0E-6	cm/cm/°C	
Transverse	5.9E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.400 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	270 to 290	°C	
Middle Temperature	280 to 300	°C	

Front Temperature	290 to 310	°C
Nozzle Temperature	290 to 310	°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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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