

Iupital® MF3020

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® MF3020 is an Acetal (POM) Copolymer material filled with 20% milled glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupital® MF3020: Flame Rated.

General Information			
UL YellowCard	E41179-231704		
Filler / Reinforcement	Milled Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	1.7	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	3900	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	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	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
Melting Temperature	166	°C	ISO 11357-3
Flammability	Nominal Value	Test Method	
Flame Rating (0.800 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	190	°C	

Front Temperature	200	°C
Nozzle Temperature	180 to 210	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	50.0 to 100	MPa
Injection Rate	Moderate	
Screw Speed	80 to 120	rpm

NOTE

1. 60% RH

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Recommended distributors for this material

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