

Iupital® FU2050

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® FU2050 is an Acetal (POM) Copolymer material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupital® FU2050 are:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41179-231690		
Features	Good Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	3.90	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Nominal Tensile Strain at Break	> 200	%	ISO 527-2
Flexural Modulus	750	MPa	ISO 178
Flexural Stress	24.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	65	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	64.0	°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	170	°C	
Middle Temperature	180	°C	
Front Temperature	190	°C	

Nozzle Temperature	180 to 210	°C
Mold Temperature	< 40.0	°C
Injection Pressure	50.0 to 100	MPa
Injection Rate	Moderate	
Screw Speed	80 to 120	rpm

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Recommended distributors for this material

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