Iupital® FS2022

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® FS2022 is an Acetal (POM) Copolymer material. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Iupital® FS2022 are:
Flame Rated
Wear Resistant

General Information			
UL YellowCard	E41179-231688		
Additive	Silicone Oil		
Features	Good Wear Resistance Low Friction Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.41	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.60	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	2.0	%	
Water Absorption [1] (Equilibrium, 23°C, 50% RH)	0.22	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	56.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Nominal Tensile Strain at Break	51	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	83.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	150	kJ/m²	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	100	°C	ISO 75-2/A
Melting Temperature	166	°C	ISO 11357-3
CLTE			ISO 11359-2

Flow	1.1E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	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	60.0 to 80.0	°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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