Iupital® F30-03

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® F30-03 is an Acetal (POM) Copolymer material. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Iupital® F30-03 are:
Flame Rated
Low Viscosity
Typical application of Iupital® F30-03: Automotive

General Information			
UL YellowCard	E41179-231673		
Features	Low Viscosity		
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)	27	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	23.0	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	2900	MPa	ISO 527-2
Tensile Stress (Yield)	64.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.5	%	ISO 527-2
Nominal Tensile Strain at Break	25	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	91.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	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	156	°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
Electric Strength			IEC 60243-1
1.00 mm	32	kV/mm	
3.00 mm	19	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	7.0E-3		
Comparative Tracking Index	600	V	IEC 60112
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		

Recommended distributors for this material

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