

Iupital® FG2025

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® FG2025 is an Acetal (POM) Copolymer material filled with 25% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupital® FG2025: Flame Rated.

General Information			
UL YellowCard	E41179-231679	E41179-231681	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.30	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	0.60	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	9100	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	164	°C	ISO 75-2/B
1.8 MPa, Unannealed	162	°C	ISO 75-2/A
Melting Temperature	166	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.0E-5	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	25	kV/mm	
3.00 mm	16	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	4.10		
1 MHz	4.10		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	8.0E-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	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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