

Iupital® ET-25

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® ET-25 is an Acetal (POM) Copolymer material filled with carbon fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupital® ET-25 are:

Flame Rated

Conductive

General Information			
UL YellowCard	E41179-100866720		
Filler / Reinforcement	Carbon Fiber		
Features	Conductive		
	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	1.6	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield)	51.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	10	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1, ISO 179/2
Charpy Unnotched Impact Strength (23°C)	100	kJ/m²	ISO 179/1U, ISO 179/2U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	94.0	°C	ISO 75-2/A
Melting Temperature	160	°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	80	ohms	IEC 60093
Volume Resistivity	30	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	40.0 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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