

Iupital® A25-03

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital®A25-03 is a polyoxymethylene (POM) copolymer material. This product is available in North America, Europe or Asia Pacific region. The processing method is injection molding.

Iupital®The main features of the A25-03 are:

flame retardant/rated flame

Hard

Iupital®The typical application fields of A25-03 are: automobile industry

General Information			
UL YellowCard	E41179-100686829		
Features	Rigidity, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	2.1	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3050	MPa	ISO 527-2
Tensile Stress (Yield)	69.0	MPa	ISO 527-2
Tensile Strain (Yield)	11	%	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	2950	MPa	ISO 178
Flexural Stress	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	250	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	105	°C	ISO 75-2/A
Melting Temperature	170	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral	1.1E-4	cm/cm/°C	ISO 11359-2
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 - 4.0	hr	
Rear Temperature	175	°C	
Middle Temperature	185	°C	
Front Temperature	195	°C	
Nozzle Temperature	180 - 210	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Pressure	50.0 - 100	MPa	
Injection Rate	Moderate		
Screw Speed	80 - 120	rpm	
NOTE			

1. 60% RH

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