

Iupital® A10-03

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Standard -2

High Anticreep

General Information			
UL YellowCard	E41179-101257271		
Features	Copolymer		
	Good creep resistance		
Forms	Particle		
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)	2.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.20	cm ³ /10min	ISO 1133
shrinkage-Flow (3.00 mm)	2.2	%	
Water absorption-23C/60RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2
Tensile Stress (Yield)	67.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	2750	MPa	ISO 178
Flexural Stress	94.0	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)	280	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	158	°C	ISO 75-2/B
1.8 MPa, not annealed	104	°C	ISO 75-2/A
Melting Temperature	168	°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
Flammability	Nominal Value	Test Method	

Flame Rating (0.8 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	3.0 - 4.0	hr
Rear Temperature	170	°C
Middle Temperature	180	°C
Front Temperature	190	°C
Nozzle Temperature	180 - 210	°C
Mold Temperature	60 - 80	°C
Injection Pressure	50.0 - 100	MPa
Injection Rate	Moderate	
Screw Speed	80 - 120	rpm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

