

Iupital® FL2010

Acetal (POM) Copolymer

Mitsubishi Engineering-Plastics Corp

Message:

Iupital® FL2010 is an Acetal (POM) Copolymer material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupital® FL2010 are:

Flame Rated

Lubricated

Wear Resistant

General Information			
UL YellowCard	E41179-231686		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Low Friction		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.10	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.00 mm)	2.0	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2650	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Nominal Tensile Strain at Break	18	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	77.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	154	°C	ISO 75-2/B
1.8 MPa, Unannealed	97.0	°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	25	kV/mm	
3.00 mm	16	kV/mm	
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		

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

