

Mitsubishi Engineering-Plastics Corp - Acetal (POM) Copolymer

Friday, March 1, 2019

General Information							
Product Description							
Viscosity, Medium; Injection general							
General							
Material Status	 Commercial: Active 						
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America				
Regarding available country, please inqu	iire via our website.						
Features	 General Purpose 	 Medium Viscosity 					
Uses	Automotive ApplicationsAutomotive Electronics	Electrical/ElectronicGeneral Purpose	Applications				
Processing Method	Injection Molding						
	ASTM & ISO	Properties ¹					
Physical		Nominal Value	Unit	Test Method			
Density		1.41	g/cm³	ISO 1183			
Melt Mass-Flow Rate (MFR) (190°C/2.16	6 kg)	16	g/10 min	ISO 1133			
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)		14	cm³/10min	ISO 1133			
Molding Shrinkage - Flow (3.00 mm)		2.0	%	Internal Method			
Water Absorption - 60% RH (23°C)		0.22	%	Internal Method			
Mechanical		Nominal Value	Unit	Test Method			
Tensile Modulus		2900	MPa	ISO 527-2/1			
Tensile Stress (Yield)		64.0	MPa	ISO 527-2/50			
Tensile Strain				ISO 527-2/50			
Yield		8.0	%				
Break		27	%				
Flexural Modulus ²		2600	MPa	ISO 178			
Flexural Stress ²		90.0	MPa	ISO 178			
Impact		Nominal Value	Unit	Test Method			
Charpy Notched Impact Strength (23°C)		6.5	kJ/m²	ISO 179			
Charpy Unnotched Impact Strength (23°	C)	200	kJ/m²	ISO 179			
Thermal		Nominal Value	Unit	Test Method			
Heat Deflection Temperature							
0.45 MPa, Unannealed		156	°C	ISO 75-2/B			

1.8 MPa, Unannealed

Melting Temperature

CLTE

Flow

Transverse

100 °C

166 °C

1.1E-4 cm/cm/°C

1.1E-4 cm/cm/°C

ISO 75-2/A

ISO 11357-3

ISO 11359-2

[•] The values described are typical values only.
• The usage examples indicated here do not guarantee results applicable to relevant uses of the products.
• It is the users' responsibility to investigate industrial property rights and the terms of use related to the uses and applications indicated here.
• For the handling (transport, storage, forming, disposal, etc.) of the products, it is advisable to refer to technical documents and the Safety Data Sheet (SDS) of the proper materials and grades. Please contact us for consultations when the products are used for the purpose of food containers and packaging, medical parts, safety equipment, and toys for children.
• In Japan, the colored products of each grade may contain chemicals subject to reporting requirements under the applicable law provided in Appendix 9 of Article 18-2 of the Enforcement Order, under Article 57-2 of the Industrial Safety and Health Act. For details, please contact us.

For the export of our products and products incorporated with our products, please comply with the relevant laws and regulations, such as the Foreign Exchange and Foreign Trade Law.

• Please note that because of the chemical substance management systems in each country, the chemicals used in our products are subject to control, and separate applications might be required or are banned from imports and exports. It is advisable to inquire about the status of regulations in the relevant countries if you are exporting or importing our products.

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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	32	kV/mm	
3.00 mm	19	kV/mm	
Dielectric Constant			IEC 60250
1 MHz	3.90		
100 MHz	3.90		
Dissipation Factor			IEC 60250
1 MHz	7.0E-3		
100 MHz	2.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	НВ		UL 94

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature - Hot Air Dryer	80	°C		
Drying Time - Hot Air Dryer	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 to 80	°C		
Injection Pressure	50.0 to 100	MPa		
Injection Rate	Moderate			
Screw Speed	80 to 120	rpm		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

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