

GEHR Plastics POM-ESD Acetal, Antistatic

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Polyoxymethylene can be used in temperatures up to 100Â°C. The high surface strength is only surpassed by a few materials. POM shows good sliding properties and high resistance to wear and tear because of the high strength and smooth surface. There is a very low risk of stress cracks. POM-C exhibits a high thermal stability and a high resistance to chemicals. Improved electrical conductivity. Properties: no microporosity high strength high rigidity high thermal stability low water absorption high dimension stability good electrical insulating properties very good sliding properties high resistance to stress cracks not resistant to high concentrated acids difficult to glue and paint Applications include bearings, fittings, gear wheels, parts for pumps, screws, bobbins, parts for textile industry, and medium for coating lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-POM-ESD-Acetal-Antistatic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527
Elongation at Break	>= 20 %	>= 20 %	ISO 527
Modulus of Elasticity	1.65 GPa	239 ksi	ISO 527
Flexural Strength	45.0 MPa	6530 psi	3.5%; ISO 178
Coefficient of Friction	0.20	0.20	DIN 53375

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	ISO 75
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	<= 1.00e+11 ohm	<= 1.00e+11 ohm	VDE 0303

Descriptive Properties	Value	Comments
Acid Resistance	no	
Aromatic Resistance	yes	
Bondability	no	

Descriptive Properties	Value	Comments
Color	Ivory	
Hydrocarbonate Resistance	yes	
Hydroxide Resistance	yes	
Ketone Resistance	yes	
Physiological indifference according	no	
Resistance Against Hot Water	yes	
UV Stabilization	no	

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