

GEHR Plastics POM-C Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Polyoxymethylene can be used in temperatures up to 100°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. 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-C-Acetal.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	125 MPa	18100 psi	ISO 2039
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527
Elongation at Break	31 %	31 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Modulus of Elasticity	2.60 GPa	377 ksi	ISO 527
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
Coefficient of Friction	0.35	0.35	DIN 53375

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	DIN 53752
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75

Thermal Properties Vicat Softening Point	Metric 150 A °C	English 300 A °F	Comments V51/B/50, ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	VDE 0303
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	VDE 0303
Dielectric Constant	3.8	3.8	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	VDE 0303
Dielectric Loss Index	0.0050	0.0050	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	CTI; IEC 60112

Descriptive Properties	Value	Comments
Acid Resistance	no	
Aromatic Resistance	yes	
Bondability	no	
CKW Resistance	limited	
Color	Natural	
Hydrocarbonate Resistance	yes	
Hydroxide Resistance	yes	
Ketone Resistance	yes	
Physiological indifference according	yes	
Resistance Against Hot Water	yes	
UV Stabilization	no	

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