GEHR Plastics POM-10PE Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

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 sliding properties for applications with increased abrasion.Properties:no microporosityhigh strengthhigh rigidityhigh thermal stabilitylow water absorptionhigh dimension stabilitygood electrical insulating propertiesvery good sliding propertieshigh resistance to stress cracksnot resistant to high concentrated acidsdifficult to glue and paintApplications 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-10PE-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527
Modulus of Elasticity	2.20 GPa	319 ksi	ISO 527
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	140 Âµm/m-Â°C @Temperature 20.0 Â°C	77.8 Âµin/in-Â°F @Temperature 68.0 Â°F	DIN 53752
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	ISO 75
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	VDE 0303

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.4 @Frequency 1.00e+6 Hz	4.4 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Loss Index	0.0030 @Frequency 1.00e+6 Hz	0.0030 @Frequency 1.00e+6 Hz	DIN 53483

Descriptive Properties	Value	Comments
Acid Resistance	no	
Bondability	no	
Color	Light Blue	

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