

## GEHR Plastics POM-ELS Acetal, Electrically Conductive

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. 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-ELS-Acetal-Electrically-Conductive.php](http://www.lookpolymers.com/polymer_GEHR-Plastics-POM-ELS-Acetal-Electrically-Conductive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527
Elongation at Break	18 %	18 %	ISO 527
Elongation at Yield	7.0 %	7.0 %	ISO 527
Modulus of Elasticity	2.00 GPa	290 ksi	ISO 527
Charpy Impact, Notched	0.750 J/cm <sup>2</sup>	3.57 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ISO 75
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 10 ohm-cm	<= 10 ohm-cm	VDE 0303
Surface Resistivity per Square	<= 1000 ohm	<= 1000 ohm	VDE 0303

Descriptive Properties	Value	Comments
Acid Resistance	no	

Descriptive Properties	Value	Comments
Color	Black	
Physiological indifference according	no	
UV Stabilization	no	

## Contact Songhan Plastic Technology Co.,Ltd.

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