

Polimersan Plastics POLIPOM® (POM)

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

Material Notes:

POLIPOM® is a plastic which is manufactured by the polymerization of formaldehyde. Its high proportional crystallized structure of the oxygen and methyl groups inside, provides it high proportional hardness and strength even without any addition of reinforced structure material. It is resistant to alkalis and hot water. It is resistant to organic solvents which are commonly used, to petroleum products and to many of the mineral oils. PROPERTIES OF POLIPOM®: Dimensional Stability High Resistance To Loads and Strokes Excellent Resistance To Corrosion High Mechanical Strength and Non-Twisting High Elasticity Bearing Property at Environments Without Oil High Electrical Insulation Property Low Absorption Resistance To Heat (-50°C - +110°C / short period 150°C) GENERAL USAGE AREAS OF POLIPOM®: As per its above mentioned technical properties, POLIPOM® is most commonly used in the production of machine molding parts at all sectors; gears, bearings of rolling mills and bearings exposed to extreme loads, conveyor systems, pins, unlimited screws, pistons, pivots and areas like these. Information provided by Polimersan Polimer Kimya San.Tic.Ltd.Sti.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimersan-Plastics-POLIPOM-POM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 - 1.43 g/cc	1.41 - 1.43 g/cc	ISO.1183 DN.53479
Water Absorption	0.50 %	0.50 %	ISO.62 DN.53495

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78 - 86	78 - 86	ISO.2039-2
Hardness, Shore D	75	75	DN.53505
Ball Indentation Hardness	140 - 155 MPa	20300 - 22500 psi	ISO.2039-2
Tensile Strength at Break	70.0 MPa	10200 psi	ISO.527 DN.53455
Tensile Strength, Yield	62.0 - 71.0 MPa	8990 - 10300 psi	ISO.527 DN.53455
Elongation at Break	20 - 75 %	20 - 75 %	ISO.527 DN.53455
Elongation at Yield	8.0 - 10 %	8.0 - 10 %	ISO.527 DN.53455
Modulus of Elasticity	>= 2.70 GPa	>= 392 ksi	ISO.178 DN.53452
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO.179 DN.53453

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	DN.53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Melting Point Thermal Properties	165 - 175 °C Metric	329 - 347 °F English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	ISO.75 DN.53461

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ISO.167 DN.53482
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ISO.167 DN.53482
Dielectric Strength	>= 50.0 kV/mm	>= 1270 kV/in	ISO.243 DN.53481

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