

Polikim POLITAL® Polyoxymethylene (POM)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Polital® is completely resistant to solvents, petroleum products, oil and grease. It is not resistant to strong acids, bases and oxidants. As it is affected by UV rays, its use in open air is not recommended. Applications: Gears, Guides, Cams, Electrical insulation, Conveyor components, Machine components, Bearings, Bolts, nuts, Hinges, junctures, Components subject to wear in humid environments or water. Information provided by Polikim Polimer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polikim-POLITAL-Polyoxymethylene-POM.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ISO 868
Tensile Strength, Ultimate	61.8 MPa	8960 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179
Coefficient of Friction	0.30	0.30	

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ISO 11359
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	ISO 8301
Melting Point	168 °C	334 °F	
Maximum Service Temperature, Air	90.0 °C	194 °F	continuous
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	55.0 kV/mm	1400 kV/in	ISO 60243

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