

Manifattura Cattaneo POM c Acetal

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

Material Notes:

Manifattura Cattaneo products are available in semi-finished forms such as bars, profiles, sheets and plates. Information provided by Manifattura Cattaneo s.p.a.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Manifattura-Cattaneo-POM-c-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 % @Temperature 23.0 Â°C	0.20 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	0.85 %	0.85 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ISO 2039-2
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527
Elongation at Break	33 %	33 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	89.0 MPa	12900 psi	
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Compressive Yield Strength	19.0 MPa @Strain 1.00 %	2760 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.43	0.43	
Charpy Impact Unnotched	28.0 J/cm ²	133 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.21	0.21	on polished steel; MPC Test
Coefficient of Friction, Static	0.14	0.14	on polished steel; MPC Test
K Factor (Wear Factor)	3.8	3.8	Âµm/s. PV = 0.1 MPa-m/s; max P = 18 MPa; MPC Test

Limiting Pressure Velocity Mechanical Properties	0.150 MPa-m/sec Metric	4280 psi-ft/min English	without lubrication; MPC Test Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	110 Âµm/m-Â°C @Temperature 23.0 - 100 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 212 Â°F	ASTM D696
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ftÂ²-Â°F	DOM 52612
Maximum Service Temperature, Air	115 Â°C	239 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	ISO 75
Flammability, UL94	HB	HB	
	V-2	V-2	
Oxygen Index	15 %	15 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60094
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Black	
	White	

Descriptive Properties	Value	Comments
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