

Manifattura Cattaneo POM c+PTFE Acetal, PTFE Filled

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

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-cPTFE-Acetal-PTFE-Filled.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.19 % @Temperature 23.0 °C	0.19 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	0.72 %	0.72 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ISO 2039-2
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527
Elongation at Break	18 %	18 %	ISO 527
Elongation at Yield	8.0 %	8.0 %	ISO 527
Tensile Modulus	2.65 GPa	384 ksi	ISO 527
Flexural Strength	77.0 MPa	11200 psi	
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Compressive Yield Strength	20.0 MPa @Strain 1.00 %	2900 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.43	0.43	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.16	0.16	on polished steel; MPC Test
Coefficient of Friction, Static	0.080	0.080	on polished steel; MPC Test
K Factor (Wear Factor)	1.5 - 2.8	1.5 - 2.8	µm/s. PV = 0.1 MPa-m/s; max P = 20 MPa; MPC Test

Mechanical Properties	Metric	English	Comments
Limiting Pressure Velocity	0.440 MPa-m/sec	12000 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	110 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 23.0 - 100 $^{\circ}\text{C}$	61.1 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 73.4 - 212 $^{\circ}\text{F}$	ASTM D696
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² - $^{\circ}\text{F}$	DOM 52612
Maximum Service Temperature, Air	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	154 $^{\circ}\text{C}$	309 $^{\circ}\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	102 $^{\circ}\text{C}$	216 $^{\circ}\text{F}$	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	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	18.0 kV/mm @Thickness 2.00 mm	457 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.0080 @Frequency 1.00e+6 Hz	0.0080 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	White	
UV Resistance	N	

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