

Hippe POM Copolymer

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

Material Notes:

Polyacetals are particularly suitable for the manufacture of precision and technical components, bushing, spring elements, housing components, sliding elements, chains, curve discs, bearing, running, and fan wheels, bolts, pumps, toothed parts rollers, screws, valves, toothed wheels requiring dimensional accuracy. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-POM-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	DIN 53 479
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Absorption of humidity in standard operating environment; DIN 53 715
Water Absorption at Saturation	0.50 %	0.50 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	155 MPa @Time 30.0 sec	22500 psi @Time 0.00833 hour	DIN 53 456
Tensile Strength	65.0 MPa	9430 psi	DIN 53 455
Elongation at Break	40 %	40 %	DIN 53 455
Tensile Modulus	3.10 GPa	450 ksi	DIN 53 457
Charpy Impact, Notched	NB	NB	DIN 53 453
Coefficient of Friction, Dynamic	0.32	0.32	Against steel, p=0.05 N/mm ² , v=0.6 m/s, hardened and ground
Abrasion	8.9	8.9	µm/km; Against steel, p=0.05 N/mm ² , v=0.6 m/s, hardened and ground

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	
Melting Point	165 °C	329 °F	DIN 53 736
Maximum Service Temperature, Air	100 °C	212 °F	Continuous use
	140 °C	284 °F	Short Periods

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO-R 75 Method B
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO-R 75 Method A
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DIN 53 482, VDE 0303, Part 3
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	DIN 53 482
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250
Dielectric Strength	>= 50.0 kV/mm	>= 1270 kV/in	Breakdown; DIN 53 481, IEC-243, VDE 0303 Part 1
Dielectric Loss Index	0.0030 @Frequency 1.00e+6 Hz	0.0030 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250

Descriptive Properties	Value	Comments
Color	natural, black	
Creep Resistance	Grade CTI 600	DIN 53 480, IEC-112, VDE 0303 Part 1
Resistance to hot water, suds	resistant in some conditions	

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