

PolyOne LubriOne™ ATH-000/04S Acetal (POM) Homopolymer

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

Material Notes:

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-LubriOne-ATH-00004S-Acetal-POM-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.3 MPa	7300 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	50.3 MPa	7300 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	2.27 GPa	329 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.11	0.11	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.15	0.15	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.7 °C	188 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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Mold Temperature Processing Properties	60.0 - 71.1 °C Metric	140 - 160 °F English	Comments
Drying Temperature	71.1 °C	160 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Homopolymer	
	Low Friction	
	Lubricated	
Forms	Pellets	
Generic Material	Acetal (POM) Homopolymer	
Generic Name	Acetal (POM) Homopolymer	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Automotive Applications	
	Bearings	
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

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