

## PolyOne LubriOne™ ATH-05KV/000 Acetal (POM) Homopolymer (discontinued \*\*)

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-LubriOne-ATH-05KV000-Acetal-POM-Homopolymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-LubriOne-ATH-05KV000-Acetal-POM-Homopolymer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.050 % @Thickness 3.18 mm, Time 86400 sec	0.050 % @Thickness 0.125 in, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.020 - 0.023 cm/cm	0.020 - 0.023 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 MPa	8010 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	10 - 12 %	10 - 12 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	55.2 MPa	8010 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.00 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.46	0.46	vs. Steel; ASTM D1894
Coefficient of Friction, Static	0.45	0.45	vs. Steel; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C @Thickness 6.35 mm	264 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C @Thickness 6.35 mm	261 °F @Thickness 0.250 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	193 - 216 °C	379 - 421 °F	

Descriptive Properties	Value	Comments
Features	Good Wear Resistance	
	Homopolymer	
	Low Friction	
Forms	Pellets	
Generic Name	Acetal (POM) Homopolymer	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliance Components	
	Automotive Applications	
	Bearings	
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

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