

## PolyOne LubriOne™ AT-000/18T 2S Acetal (POM) Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 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-AT-00018T-2S-Acetal-POM-Copolymer.php](http://www.lookpolymers.com/polymer_PolyOne-LubriOne-AT-00018T-2S-Acetal-POM-Copolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.030 cm/cm	0.020 - 0.030 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	40.0 MPa	5800 psi	5.1 mm/min; ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	30 %	30 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.77 GPa	257 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	62.7 MPa	9090 psi	1.3 mm/min; ASTM D790
Flexural Modulus	1.74 GPa	252 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.370 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.693 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.10	0.10	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.14	0.14	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	151 °C @Thickness 6.35 mm	304 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C @Thickness 6.35 mm	178 °F @Thickness 0.250 in	Unannealed; ASTM D648
	HB	HB	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	UL 94 Comments
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Descriptive Properties	Value	Comments
Features	Copolymer	
	Good Wear Resistance	
	Low Friction	
	Lubricated	
Forms	Pellets	
Generic Material	Acetal (POM) Copolymer	
Generic Name	Acetal (POM) Copolymer	
Processing Method	Injection Molding	
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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