

# LubriOne<sup>™</sup> ATH-000/18T 2S

Acetal (POM) Homopolymer

## **Key Characteristics**

Product Description			
LubriOne™ Lubricated and Wear offering low coefficient of friction reduce friction, noise, vibration, h	and improved wear resistance p	roperties. LubriOne compound	
General			
Material Status	Commercial: Active		
Regional Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	Homopolymer     Low Friction	<ul><li>Lubricated</li><li>Wear Resistant</li></ul>	
Uses	<ul> <li>Appliance Components</li> <li>Automotive Applications</li> <li>Bearings</li> <li>Business Equipment</li> </ul>	<ul> <li>Consumer Applications</li> <li>Conveyor Parts</li> <li>Gears</li> <li>Industrial Applications</li> </ul>	<ul><li> Printer Parts</li><li> Pulleys</li><li> Rollers</li></ul>
Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

### **Technical Properties**<sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.51	1.51	ASTM D792
Molding Shrinkage - Flow	0.020 to 0.023 in/in	2.0 to 2.3 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.20 %	0.20 %	ASTM D570
echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	350000 psi	2410 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	5500 psi	37.9 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.0 to 5.0 %	2.0 to 5.0 %	ASTM D638
Flexural Modulus	350000 psi	2410 MPa	ASTM D790
Flexural Strength	5500 psi	37.9 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.25	0.25	
vs. Steel - Static	0.14	0.14	
pact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.0 ft·lb/in	53 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	255 °F	124 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	240 °F	116 °C	

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Processing Information					
Injection	Typical Value (English)	Typical Value (SI)			
Processing (Melt) Temp	380 to 420 °F	193 to 216 °C			
Notoo					

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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