

# LubriOne<sup>™</sup> AT-000/18T-2S BLK Acetal (POM) Copolymer

# **Key Characteristics**

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Product Description			
PTFE and silicone lubricated	I Co-POM compounds		
General			
Material Status	<ul> <li>Commercial: Active</li> </ul>		
Regional Availability	<ul> <li>Africa &amp; Middle East</li> </ul>	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Europe</li> </ul>
Features	<ul><li>Copolymer</li><li>Low Friction</li></ul>	<ul><li>Lubricated</li><li>Wear Resistant</li></ul>	
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

## Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.47	1.47	ASTM D792
Density <sup>2</sup>	1.48 g/cm <sup>3</sup>	1.48 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.020 to 0.030 in/in	2.0 to 3.0 %	ASTM D955
Molding Shrinkage - Across Flow	0.010 to 0.030 in/in	1.0 to 3.0 %	ASTM D955
echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-2
Tensile Strength <sup>3</sup> (Break)	5800 psi	40.0 MPa	ASTM D638
Tensile Stress	5800 psi	40.0 MPa	ISO 527-2
Tensile Strain (Break)	> 10 %	> 10 %	ISO 527-2
Flexural Modulus <sup>4</sup>	252000 psi	1740 MPa	ASTM D790
Flexural Modulus	261000 psi	1800 MPa	ISO 178
Flexural Strength <sup>4</sup>	9100 psi	62.7 MPa	ASTM D790
Flexural Stress	8700 psi	60.0 MPa	ISO 178
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.10	0.10	
vs. Steel - Static	0.18	0.18	
Taber Abrasion Resistance			ASTM D3884
1000 Cycles, 1000 g, H-18 Wheel	120 mg	120 mg	
pact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in²	4.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	19 ft·lb/in²	40 kJ/m²	
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.70 ft·lb/in	37 J/m	
nermal	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)	304 °F	151 °C	

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# LubriOne™ AT-000/18T-2S BLK

### **Technical Data Sheet**

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	178°F	81.1 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	НВ	HB	
0.12 in (3.0 mm)	НВ	HB	
Notes			
<sup>1</sup> Typical values are not to be construed as sp	pecifications.		
<sup>2</sup> +/- 0.02			
<sup>3</sup> 2.0 in/min (50 mm/min)			
<sup>4</sup> 0.050 in/min (1.3 mm/min)			

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