

Acetal (POM) Copolymer

LubriOne[™] AT-000/10T 2S

Key Characteristics

Product Description			
offering low coefficient of friction	ar-Resistant Compounds have been and improved wear resistance product heat buildup and improve product	roperties. LubriOne compound	
General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	CopolymerLow Friction	LubricatedWear Resistant	
Uses	 Appliance Components Automotive Applications Bearings Business Equipment 	 Consumer Applications Conveyor Parts Gears Industrial Applications 	 Printer Parts Pulleys Rollers
RoHS Compliance	 RoHS Compliant 		
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties¹

hysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.46	1.46	ASTM D792
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 ²	389000 psi	2680 MPa	ASTM D638
Tensile Strength ² (Yield)	6100 psi	42.1 MPa	ASTM D638
Tensile Strength ³ (Break)	6100 psi	42.1 MPa	ASTM D638
Tensile Elongation ² (Break)	42 %	42 %	ASTM D638
Flexural Modulus ⁴	273000 psi	1880 MPa	ASTM D790
Flexural Strength ⁴	9800 psi	67.6 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.11	0.11	
vs. Steel - Static	0.14	0.14	
npact	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	0.90 ft·lb/in	48 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)	302 °F	150 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	180 °F	82.2 °C	

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Technical Data Sheet

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	200 °F	93.3 °C	
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 hr	
Suggested Max Moisture	0.15 to 0.20 %	0.15 to 0.20 %	
Rear Temperature	330 to 350 °F	166 to 177 °C	
Middle Temperature	350 to 370 °F	177 to 188 °C	
Front Temperature	370 to 390 °F	188 to 199 °C	
Nozzle Temperature	380 to 410 °F	193 to 210 °C	
Mold Temperature	170 to 200 °F	76.7 to 93.3 °C	

Notes

- ¹ Typical values are not to be construed as specifications.
- ² Type I, 0.20 in/min (5.1 mm/min)

³ 0.20 in/min (5.1 mm/min)

⁴ 0.050 in/min (1.3 mm/min)

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