

LubriOne[™] AT-000/01T- 4M

Acetal (POM) Copolymer

Key Characteristics

Product Description

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.

General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	
Features	CopolymerLow Friction	LubricatedWear Resistant	
Uses	Appliance ComponentsAutomotive ApplicationsBearingsBusiness Equipment	Consumer ApplicationsConveyor PartsGearsIndustrial Applications	Printer PartsPulleysRollers
RoHS Compliance	 RoHS Compliant 		
Forms	 Pellets 		
Processing Method	 Injection Molding 		

Technical Properties 1

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hysical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.43	1.43	ASTM D792
Molding Shrinkage - Flow	0.015 to 0.020 in/in	1.5 to 2.0 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.050 %	0.050 %	ASTM D570
echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	435000 psi	3000 MPa	ASTM D638
Tensile Strength ² (Yield)	9430 psi	65.0 MPa	ASTM D638
Tensile Elongation ² (Break)	7.0 %	7.0 %	ASTM D638
npact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in²	6.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	No Break	No Break	
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)	320 °F	160 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	310 °F	154 °C	
ammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	НВ	НВ	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)	
Processing (Melt) Temp	370 to 410 °F	188 to 210 °C	

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Notes

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

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