

LubriOne[™] AT-000/10T Acetal (POM) Copolymer

Key Characteristics

neral			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	
Features	CopolymerGood Wear Resistance	Low FrictionLubricated	
Jses	 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	1.54	1.54	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
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	350000 psi	2410 MPa	ASTM D638
Tensile Strength ² (Yield)	6700 psi	46.2 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 to 6.0 %	2.0 to 6.0 %	ASTM D638
Flexural Modulus	350000 psi	2410 MPa	ASTM D790
Flexural Strength	11000 psi	75.8 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.39	0.39	
vs. Steel - Static	0.23	0.23	
mpact	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	
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	
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Copyright ©, 2015 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMPLED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patiented invention without permission of the patient owner.

LubriOne[™] AT-000/10T

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

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500 Asia China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600

Spain - Barbastro (Huesca) 8 +34 974 310 314 18

Europe

Germany - Gaggenau +49 7225 6802 0

Hong Kong -+852 2690 5332 Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849

Z.J Hi-tech Park, Pudong

Shanghai, 201203, China +86 21 5080 1188

PolvOn

Beyond Polymers. Better Business Solutions. SM www.polyone.com

PolyOne Americas

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000 +1 866 POLYONE

PolyOne Asia PolyOne Europe No. 88 Guoshoujing Road 6 Giällewee

6 Giällewee +352 269 050 35