LubriOne™ AT-000/18T 2S

Acetal (POM) Copolymer

PolyOne Corporation

Message:

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 Information			
UL YellowCard	E76261-101413483	E76261-102236103	
Features	Copolymer Good Wear Resistance Low Friction Lubricated		
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		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.47	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.0 to 3.0	%	
Across Flow	1.0 to 3.0	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	1770	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield [2]	40.0	MPa	
Break [3]	40.0	MPa	
Tensile Elongation [4] (Break)	30	%	ASTM D638

Flexural Modulus [5]	1740	MPa	ASTM D790
Flexural Strength [6]	62.7	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.10		
vs. Steel - Static	0.14		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	37	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	151	°C	
1.8 MPa, Unannealed, 6.35 mm	81.1	°C	
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	5.1 mm/min		
4.	Type I, 5.1 mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		

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