

LubriOne™ ATH-000/04S NATURAL

Acetal (POM) Homopolymer

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			
Features	Homopolymer 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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	2.0 to 4.0	%	
Across Flow	1.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1930	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	50.3	MPa	
Break	50.3	MPa	
Flexural Modulus ³	2270	MPa	ASTM D790
Flexural Strength ⁴	75.8	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.11		

vs. Steel - Static	0.15		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	60	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	86.7	°C	
Injection	Nominal Value	Unit	
Drying Temperature	71.1	°C	
Drying Time	2.0	hr	
Mold Temperature	60.0 to 71.1	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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