

LubriOne™ LB4220-0001 Natural

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			
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		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 to 2.5	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1820	MPa	ASTM D638
Tensile Strength ² (Yield)	53.8	MPa	ASTM D638
Flexural Modulus	2010	MPa	ASTM D790
Flexural Strength	75.2	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.40		
vs. Steel - Static	0.27		
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	48	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	150	°C	
1.8 MPa, Unannealed, 6.35 mm	87.0	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	188 to 210	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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