

LubriOne™ PS-30GF/2S Natural

Polybutylene Terephthalate

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	Good Chemical Resistance		
	High Heat Resistance		
	High Rigidity		
	Lubricated		
	Semi Crystalline		
Uses	Appliance Components		
	Automotive Applications		
	Bearings		
	Business Equipment		
	Consumer Applications		
	Conveyor Parts		
	Gears		
	Industrial Applications		
	Printer Parts		
	Pulleys		
RoHS Compliance	RoHS Compliant		
	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.40	%	
Across Flow	1.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	8620	MPa	ASTM D638
Tensile Strength ² (Yield)	100	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus ⁴	6690	MPa	ASTM D790
Flexural Strength ⁵	165	MPa	ASTM D790

Coefficient of Friction		ASTM D1894	
vs. Steel - Dynamic	0.14		
vs. Steel - Static	0.24		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	75	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load		ASTM D648	
0.45 MPa, Unannealed, 6.35 mm	218	°C	
1.8 MPa, Unannealed, 6.35 mm	197	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		

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