

# LubriOne™ GF-1010 40 MS 2 HS Black 37

Polyamide 6  
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 Wear Resistance		
	Heat Stabilized		
	High Stiffness		
	Nucleated		
Uses	Appliance Components		
	Automotive Applications		
	Bearings		
	Business Equipment		
	Consumer Applications		
	Conveyor Parts		
	Gears		
	Industrial Applications		
	Printer Parts		
	Pulleys		
	Rollers		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.0 to 2.0	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9170	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	122	MPa	
Break <sup>1</sup>	122	MPa	
Tensile Elongation <sup>2</sup> (Break)	4.5	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790

Flexural Strength	193	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.21		
vs. Steel - Static	0.31		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	160	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	207	°C	
1.8 MPa, Unannealed	185	°C	
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 76.7	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	249 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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#### Recommended distributors for this material

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