

## PolyOne LubriOne™ GF-1010 40 MS 2 HS Black 37 Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-LubriOne-GF-1010-40-MS-2-HS-Black-37-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-LubriOne-GF-1010-40-MS-2-HS-Black-37-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	122 MPa	17700 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	122 MPa	17700 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	9.17 GPa	1330 ksi	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	3.00 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.21	0.21	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.31	0.31	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	207 °C	405 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	249 - 277 °C Metric	480 - 531 °F English	Comments
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	
Drying Temperature	71.1 - 76.7 °C	160 - 170 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Black	
Features	Good Wear Resistance	
	Heat Stabilized	
	High Stiffness	
	Nucleated	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Automotive Applications	
	Bearings	
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	

Descriptive Properties	Industrial Applications Value	Comments
	Printer Parts	
	Pulleys	
	Rollers	

## Contact Songhan Plastic Technology Co.,Ltd.

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