



LubriOne™ GF-1010 40 MS 2 HS Black 37

Polyamide 6

Key Characteristics

Product Description

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

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Heat Stabilized • High Stiffness	• Nucleated • Wear Resistant	
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		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.41	1.41	ASTM D792
Molding Shrinkage - Flow	0.010 to 0.020 in/in	1.0 to 2.0 %	ASTM D955
Water Absorption (24 hr)	0.70 %	0.70 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.33E+6 psi	9170 MPa	ASTM D638
Tensile Strength (Yield)	17700 psi	122 MPa	ASTM D638
Tensile Strength ² (Break)	17700 psi	122 MPa	ASTM D638
Tensile Elongation ² (Break)	4.5 %	4.5 %	ASTM D638
Flexural Modulus	1.30E+6 psi	8960 MPa	ASTM D790
Flexural Strength	28000 psi	193 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.21	0.21	
vs. Steel - Static	0.31	0.31	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	3.0 ft-lb/in	160 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	405 °F	207 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	365 °F	185 °C	

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	160 to 170 °F	71 to 77 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	480 to 530 °F	249 to 277 °C
Mold Temperature	180 to 200 °F	82 to 93 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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