



LubriOne™ NL-30CF/15T Black Polyamide 612

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	• Electrically Conductive • High Stiffness • Lubricated • 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	1.33	1.33	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 0.010 in/in	0.20 to 1.0 %	ASTM D955
Molding Shrinkage - Across Flow	0.010 to 0.020 in/in	1.0 to 2.0 %	ASTM D955
Water Absorption (24 hr)	0.15 %	0.15 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	2.80E+6 psi	19300 MPa	ASTM D638
Tensile Strength (Yield)	24500 psi	169 MPa	ASTM D638
Tensile Strength ² (Break)	24500 psi	169 MPa	ASTM D638
Tensile Elongation ² (Break)	2.9 %	2.9 %	ASTM D638
Flexural Modulus	2.10E+6 psi	14500 MPa	ASTM D790
Flexural Strength	39000 psi	269 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.14	0.14	
vs. Steel - Static	0.26	0.26	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.0 ft-lb/in	110 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	414 °F	212 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	388 °F	198 °C	ASTM D648

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3 ohms	1.0E+2 to 1.0E+3 ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+3 ohms·cm	1.0E+2 to 1.0E+3 ohms·cm	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 to 5.0 hr	4.0 to 5.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	430 to 470 °F	221 to 243 °C
Middle Temperature	440 to 480 °F	227 to 249 °C
Front Temperature	450 to 490 °F	232 to 254 °C
Nozzle Temperature	460 to 500 °F	238 to 260 °C
Mold Temperature	100 to 200 °F	38 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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