

## PolyOne LubriOne™ NL-30CF/15T Black Polyamide 612 (Nylon 612)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

### 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-NL-30CF15T-Black-Polyamide-612-Nylon-612.php](http://www.lookpolymers.com/polymer_PolyOne-LubriOne-NL-30CF15T-Black-Polyamide-612-Nylon-612.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0080 cm/cm	0.0020 - 0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	169 MPa	24500 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	169 MPa	24500 psi	ASTM D638
Elongation at Break	2.9 %	2.9 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	19.3 GPa	2800 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	269 MPa	39000 psi	ASTM D790
Flexural Modulus	14.5 GPa	2100 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.87 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.14	0.14	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.26	0.26	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	212 °C @Thickness 3.18 mm	414 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 °C @Thickness 3.18 mm	388 °F @Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1000 ohm-cm	100 - 1000 ohm-cm	ASTM D257
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 271 °C	469 - 520 °F	
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Black	
Features	Electrically Conductive	
	Good Wear Resistance	
	High Stiffness	
	Lubricated	
Forms	Pellets	
Generic Material	Nylon 612	
Generic Name	Polyamide 612 (Nylon 612)	
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	

Descriptive Properties	Bearings Value	Comments
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

## Contact Songhan Plastic Technology Co.,Ltd.

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