

PolyOne LubriOne™ NL-30GF/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-30GF15T-Black-Polyamide-612-Nylon-612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	119 MPa	17300 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	119 MPa	17300 psi	ASTM D638
Elongation at Break	3.6 %	3.6 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.45 GPa	1230 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	191 MPa	27700 psi	ASTM D790
Flexural Modulus	7.24 GPa	1050 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	1.80 ft-lb/in @ Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.13	0.13	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.18	0.18	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	212 °C @ Thickness 3.18 mm	414 °F @ Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (100 psi)	195 °C	383 °F	ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 271 °C	469 - 520 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 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	
	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	
	Bearings	
	Business Equipment	
	Consumer Applications	

Descriptive Properties	Conveyor Parts Value	Comments
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China