

PolyOne LubriOne™ NJ-30CF/15T-2S Nylon 12 (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-LubriOne-NJ-30CF15T-2S-Nylon-12-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00020 - 0.0010 cm/cm	0.00020 - 0.0010 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	121 MPa	17500 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	121 MPa	17500 psi	ASTM D638
Elongation at Break	4.1 %	4.1 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	16.5 GPa	2390 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	10.7 GPa	1550 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	
Coefficient of Friction, Dynamic	0.13	0.13	vs. Steel; ASTM D1894
Coefficient of Friction, Static	0.24	0.24	vs. Steel; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	176 °C	349 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	166 °C	331 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	Unannealed; ASTM D648 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	71.1 - 82.2 °C @Time 7200 sec	160 - 180 °F @Time 2.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	Electrically Conductive	
	Good Wear Resistance	
	High Stiffness	
	Lubricated	
Forms	Pellets	
Generic Name	Polyamide 12 (Nylon 12)	
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	

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

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