

PolyOne LubriOne™ NN-000/10T-2S Black Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-NN-00010T-2S-Black-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.18 mm	0.25 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.012 - 0.018 cm/cm	0.012 - 0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.8 MPa	9400 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	7.0 - 18 %	7.0 - 18 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.749 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C @Thickness 6.35 mm	428 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C @Thickness 6.35 mm	154 °F @Thickness 0.250 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	277 - 304 °C	531 - 579 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Forms	Pellets		
Generic Material	Nylon 66		
Generic Name	Polyamide 66 (Nylon 66)		
Processing Method	Injection Molding		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Appliance Components		
	Automotive Applications		
	Bearings		
	Business Equipment		
	Consumer Applications		
	Conveyor Parts		
	Gears		
	Industrial Applications		
	Printer Parts		
	Pulleys		
	Rollers		

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