

## PolyOne OnForce™ LFT NN-30 LGF/000 Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

PolyOne's Long Fiber Thermoplastic (LFT) compounds are formulated for demanding applications which require high stiffness and good impact such as metal replacement or other structural applications. These products exhibit enhanced physical and mechanical properties versus standard short fiber products. Benefits of LFT compounds include improved impact strength, elastic modulus, and material strength across wide temperature ranges from subambient to highly elevated. Furthermore, LFT compounds have been shown to offer improved performance in the areas of creep and fatigue performance, improved dimensional stability, and exhibit an exceptional surface finish when compared to traditional highly filled short fiber products. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-OnForce-LFT-NN-30-LGF000-Natural-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-OnForce-LFT-NN-30-LGF000-Natural-Polyamide-66-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	183 MPa	26500 psi	ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Yield Strength	283 MPa	41000 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	2.70 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.06 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256
Izod Impact, Unnotched	14.0 J/cm	26.2 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	293 - 310 °C	559 - 590 °F	
Mold Temperature	93.3 °C	200 °F	
Drying Temperature	80.0 °C	176 °F	

Processing Properties	Metric	English	Comments
Dry Time	4.00 Hour	4.00 Hour	

Descriptive Properties	Value	Comments
Features	Heat Stabilized	
Filler / Reinforcement	Long Glass Fiber, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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