

## PolyOne Nymax™ 1010 A Natural Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

The Nymax® Series of nylon 6 compounds have been specifically developed to deliver outstanding performance in a wide range of application areas. These materials are available with a broad range of fillers, glass reinforcement levels, and impact modifiers depending upon grade selected and have been formulated to offer ease of processing in most standard thermoplastic processing equipment. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Nymax-1010-A-Natural-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-1010-A-Natural-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	1.0 % @Thickness 3.18 mm	1.0 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.1 MPa	7700 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	140 %	140 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	2.10 J/cm @Thickness 3.18 mm, Temperature -40.0 °C	3.93 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	Injection Molded; ASTM D256A
	10.0 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	18.7 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	100 °C @Thickness 3.18 mm	212 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C @Thickness 3.18 mm	131 °F @Thickness 0.125 in	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Additive	Impact Modifier	
Appearance	Natural Color	
Features	General Purpose	
	Impact Modified	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

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