

PolyOne Nymax™ 1200 IL Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Nymax® 1200 IL is an internally lubricated, unfilled nylon 6/6 designed for exceptional processing and mold release. This grade is intended primarily for injection molded applications where a good balance of strength, toughness, high temperature resistance and surface appearance are required. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-1200-IL-Natural-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.4 % @Thickness 3.18 mm	1.4 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.021 cm/cm @Thickness 3.18 mm	0.021 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.036 cm/cm @Thickness 3.18 mm	0.036 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.8 MPa	11000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	77.0 MPa	11200 psi	ISO 527-2
Flexural Strength	113 MPa	16400 psi	ASTM D790
	120 MPa	17400 psi	ISO 178
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded, Across Flow; ASTM D256A
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	ISO 180/3A

Thermal Properties	Metric	English	Comments
Melting Point	255 - 265 °C	491 - 509 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	Unannealed; ISO 75-2/A

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 °C	482 - 518 °F	
Middle Barrel Temperature	260 - 280 °C	500 - 536 °F	
Front Barrel Temperature	270 - 290 °C	518 - 554 °F	
Nozzle Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	60.0 - 107 °C	140 - 225 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Additive	Lubricant	
Appearance	Natural Color	
Features	General Purpose	
	Lubricated	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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