



# Nymax™ 1280 A HS Black 11 A Polyamide 66

## Key Characteristics

Product Description			
The Nymax® 1200 Blend Series of nylon 6/6 materials are "salt-and-pepper" pelletized blends combining select nylon resins and process aids, performance modifiers, and color concentrates. These materials have been formulated to provide improved melt processing, part performance, or surface appearance depending upon grade selected and are offered as an economical alternative to fully compounded products.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Latin America	• North America	
Additive	• Heat Stabilizer		
Features	• General Purpose	• Lubricated	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Extrusion Blow Molding	

## Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.14	1.14	ASTM D792
Molding Shrinkage - Flow	0.011 to 0.014 in/in	1.1 to 1.4 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.5 %	1.5 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	400000 psi	2760 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	11000 psi	75.8 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	11300 psi	77.9 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	20 %	20 %	ASTM D638
Flexural Modulus	400000 psi	2760 MPa	ASTM D790
Flexural Strength	17000 psi	117 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Across Flow 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.8 ft-lb/in	96 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	149 °F	65.0 °C	ASTM D648
Melting Temperature	500 °F	260 °C	ASTM D789
Additional Information			
Molded Test Bars: Dry as Molded			

## Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82.2 °C
Drying Time	4.0 hr	4.0 hr

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Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	140 to 225 °F	60.0 to 107 °C

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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