



# Nymax™ 1308 A HS Natural

## Polyamide 66

### Key Characteristics

#### Product Description

The Nymax® Series of nylon 6/6 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.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Latin America	• North America	
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• General Purpose	• Heat Stabilized	• Impact Modified
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Automotive Specifications	• GM GMP.PA66.015 Color: Natural		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.11	1.11	ASTM D792
Molding Shrinkage - Flow	0.016 in/in	1.6 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.2 %	1.2 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			
Break <sup>2</sup>	8900 psi	61.4 MPa	ASTM D638
Break <sup>3</sup>	8410 psi	58.0 MPa	ISO 527
Tensile Elongation <sup>2</sup> (Break)	65 %	65 %	ASTM D638
Flexural Modulus			
--	280000 psi	1930 MPa	ASTM D790
--	296000 psi	2040 MPa	ISO 178
Flexural Strength	13000 psi	89.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	3.3 ft·lb/in	180 J/m	
Notched Izod Impact Strength	7.3 ft·lb/in <sup>2</sup>	15 kJ/m <sup>2</sup>	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	149 °F	65.0 °C	

#### Additional Information

Molded Test Bars: Dry as Molded

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**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)

<sup>3</sup> 2.0 in/min (50 mm/min)

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