



Nymax™ 2024 HS UV 425C Grey

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	• North America	• South America	
Additive	• Heat Stabilizer	• Impact Modifier	• UV Stabilizer
Features	• General Purpose	• Impact Modified	
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.09	1.09 g/cm ³	ASTM D792
Density	1.08 g/cm ³	1.08 g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.020 to 0.023 in/in	2.0 to 2.3 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.0 %	1.0 %	ASTM D570
Water Absorption (73°F (23°C), 24 hr)	1.0 %	1.0 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	270000 psi	1860 MPa	ASTM D638
Tensile Modulus	261000 psi	1800 MPa	ISO 527-2
Tensile Strength (Yield)	6600 psi	45.5 MPa	ASTM D638
Tensile Strength ² (Break)	6200 psi	42.7 MPa	ASTM D638
Tensile Elongation ² (Break)	40 %	40 %	ASTM D638
Flexural Modulus	271000 psi	1870 MPa	ASTM D790
Flexural Strength	11000 psi	75.8 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	17 ft-lb/in	910 J/m	
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)	140 °F	60.0 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Annealed	140 °F	60.0 °C	
Melting Temperature	500 °F	260 °C	ASTM D789

Additional Information

Molded Test Bars: Dry as Molded

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Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe

6 Giallewee
Please Call Assesse
Belgium Phone Number +32
83 660 211

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