

## PolyOne Nymax™ 2024 HS UV 425C Grey Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

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. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Nymax-2024-HS-UV-425C-Grey-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-2024-HS-UV-425C-Grey-Polyamide-66-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.0 %	1.0 %	24h/23C; ISO 62
	1.0 % @Thickness 3.18 mm	1.0 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.020 - 0.023 cm/cm	0.020 - 0.023 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.7 MPa	6190 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	45.5 MPa	6600 psi	ASTM D638
Elongation at Break	40 %	40 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ISO 527-2
	1.86 GPa	270 ksi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	1.87 GPa	271 ksi	ASTM D790
Izod Impact, Notched	9.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	17.0 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM D789
Deflection Temperature at 1.8 MPa	60.0 °C	140 °F	

(264 psi) Thermal Properties	Metric	English	Annealed: ISO 75-2/A Comments
	60.0 °C	140 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
	UV Stabilizer	
Appearance	Grey	
Features	General Purpose	
	Impact Modified	
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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