

PolyOne Nymax™ 623 HS Black 13 1 Polyamide 6 Alloy (Nylon 6 Alloy)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

The Nymax® 600 Blend Series of nylon 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. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-623-HS-Black-13-1-Polyamide-6-Alloy-Nylon-6-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.5 % @Thickness 3.18 mm	1.5 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.011 - 0.014 cm/cm	0.011 - 0.014 in/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
Elongation at Break	20 %	20 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
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; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C @Thickness 3.18 mm	131 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 93.3 °C	120 - 200 °F	
Drying Temperature	82.2 °C	180 °F	

Processing Properties	Metric	English	Comments
Dry Time	4.00 Hour	4.00 Hour	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Appearance	Black	
Features	General Purpose	
	Heat Stabilized	
	Industrial Resin	
Forms	Pellets	
Generic Material	Nylon 6 Alloy	
Generic Name	Polyamide 6 Alloy (Nylon 6 Alloy)	
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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