

Nymax™ ND633 GF Black

Polyamide 6

PolyOne Corporation

Message:

Nymaxm of glass fiber reinforced nylon 6 polymer®GF600 series products are specially designed for high rigidity, tensile strength and toughness applications, and their surface appearance is improved compared with nylon 6/6 polymer. According to the required stiffness characteristics, these materials have a variety of strength levels to choose from and are easy to process in most standard thermoplastic processing equipment.

General Information			
UL YellowCard	E76261-101413101		
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	heat stabilizer		
Recycled Content	Yes		
Features	Industrial resin		
	Thermal Stability		
	General		
Uses	Industrial application		
	Architectural application field		
	Application in Automobile Field		
	General		
	Consumer goods application field		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 - 0.45	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	131	MPa	ASTM D638
Tensile Elongation ² (Yield)	2.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	64	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	200	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm, Black)	HB	UL 94
Additional Information		
Molded Test Bars: Dry as Molded		
Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Mold Temperature	48.9 - 93.3	°C
NOTE		
1.	Type 1, 5.1 mm/min	
2.	Type 1, 5.1 mm/min	

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