Nymax™ ND633 GF Natural

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			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Features	Industrial resin General		
Uses	Industrial application Architectural application field Application in Automobile Field General Consumer goods application field		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.36	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	165	MPa	ASTM D638
Fracture	152	MPa	ASTM D638
Tensile Elongation [2] (Yield)	4.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	234	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	130	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	205	°C	ASTM D648
Melting Temperature	220	°C	DSC
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	

Recommended distributors for this material

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