

NYCOA Polyamide ASN 27/500

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA ASN 27/500 is a 50% glass fiber reinforced Nylon 6 resin that features outstanding mechanical properties, dimensional stability, and a greater service life at elevated temperatures than standard grades of glass reinforced Nylon 6.

NYCOA ASN 27/500 is suitable for injection molding and can be found in automotive under-the-hood applications, electrical and electronics, and power-tool housings.

This product is available in heat-stable and UV stable grades, as well as custom colors.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	Good dimensional stability		
Uses	Electrical/Electronic Applications		
	Parts under the hood of a car		
	Shell		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11900	MPa	ASTM D638
Tensile Strength ² (Break)	190	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus ⁴	12800	MPa	ASTM D790
Flexural Strength ⁵	290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
Melting Temperature	221	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
NOTE			
1.	51 mm/min		

2.	51 mm/min
3.	51 mm/min
4.	51 mm/min
5.	51 mm/min

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Recommended distributors for this material

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