

## NYCOA ASN 27/500

### GLASS REINFORCED NYLON 6

**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.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.56	-	1.56
Water Absorption, 24 hr	D 570	%	0.7	%	0.7
Linear Mold Shrinkage	D 955	%	0.2	%	0.2
<b>Mechanical Properties</b>					
Hardness, Rockwell (R Scale)	D 785	-	121	-	121
Tensile Strength	D 638	psi	27,550	MPa	190
Ultimate Elongation	D 638	%	3.0	%	3.0
Tensile Modulus	D 638	psi	1,720,151	MPa	11,860
Flexural Modulus	D 790	psi	1,855,000	MPa	13,000
Flexural Strength	D 790	psi	42,100	MPa	290
Notched Izod Impact	D 256	ft.lbs./in.	2.5	J/m	125
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	415	°C	214
All test specimens tested in "dry" state – less than 0.3% moisture. Izod Impact – ½" x ¼" bars. All tensile properties obtained at a testing speed of 2 in./min.					
<small>The information contained herein is based upon data believed to be thoroughly reliable. However, due to the many uses to which this material is put, and the different equipment and techniques used, we cannot guarantee results in specific instances. Nor should any statement herein be construed as a recommendation to use our products in the infringement of a patent.</small>					