

## NYCOA ASN 27 300 I

### 30% Glass Fiber Reinforced, Flame Retardant Nylon 6 Resin.

NYCOA ASN 27 300 I is a 30% glass fiber reinforced, flame retardant Nylon 6 resin used for injection molding. This resin was specifically formulated to meet the requirement of UL 94 V0 at 1.4mm thickness.

NYCOA ASN 27 300 I is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

Typical applications include speaker baskets, relay housings, bobbins, and electrical connectors.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.35	-	1.35
Water Absorption, 24 hr	D 570	%	1.2	%	1.2
Linear Mold Shrinkage (Parallel)	D 955	%	0.3	%	0.3
Linear Mold Shrinkage (Normal)	D 955	%	0.5	%	0.5
<b>Mechanical Properties</b>					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	24,650	MPa	170
Ultimate Elongation	D 638	%	3.0	%	3.0
Tensile Modulus	D 638	psi	1,370,250	MPa	9,450
Flexural Modulus	D 790	psi	1,191,900	MPa	8,220
Flexural Strength	D 790	psi	30,450	MPa	210
Notched Izod Impact	D 256	ft.lbs./in.	2.6	J/m	130
Unnotched Izod Impact	D 256	ft.lbs./in.	20	J/m	1000
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	432	°C	222
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	428	°C	220
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	410	°C	210
<small>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>					
<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>					