

NYCOA ASN 27 300 SR UV

30% Glass Fiber Reinforced, UV Stabilized Nylon 6 Resin.

NYCOA ASN 27 300 SR UV is a 30% glass fiber reinforced, UV stabilized Nylon 6 resin used for injection molding. This grade features excellent strength and stiffness, dimensional stability, and a greater service life than standard grades of glass reinforced Nylon 6.

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

Typical applications include automotive pedals, power tool housing, and lawn & garden equipment parts.

Property	Method ASTM	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
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
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	21,750	MPa	150
Ultimate Elongation	D 638	%	3.0	%	3.0
Flexural Modulus	D 790	psi	1,146,950	MPa	7,910
Flexural Strength	D 790	psi	30,450	MPa	210
Notched Izod Impact	D 256	ft.lbs./in.	16	J/m	800
Thermal Properties					
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

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.

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.