

NYCOA ASN 27 440 KNF

44% Glass Fiber Reinforced, Heat Stabilized Nylon 6 Resin.

NYCOA ASN 27 440 KNF is a 44% glass fiber reinforced, heat stabilized Nylon 6 resin used for injection molding. This resin was engineered for applications requiring high stiffness, and toughness.

NYCOA ASN 27 440 KNF 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 automotive pedals, weed trimmer heads, and speaker brackets.

Property	Method	English		SI	
		ASTM	Unit	Value	Unit
Physical Properties					
Specific Gravity	D 792	-	1.5	-	1.5
Water Absorption, 24 hr	D 570	%	0.8	%	0.8
Linear Mold Shrinkage (Parallel)	D 955	%	0.1	%	0.1
Linear Mold Shrinkage (Normal)	D 955	%	0.2	%	0.2
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	121	-	121
Tensile Strength	D 638	psi	34,809	MPa	240
Ultimate Elongation	D 638	%	2.0	%	2.0
Tensile Modulus	D 638	psi	1,720,151	MPa	11,860
Flexural Modulus	D 790	psi	1,900,000	MPa	13,100
Flexural Strength	D 790	psi	40,600	MPa	280
Notched Izod Impact	D 256	ft.lbs./in.	3.1	J/m	155
Thermal Properties					
Melting Temperature	D 789	° F	430	° C	221
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 – 1/2" x 1/4" 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.