

NYCOA ASN 27 400 SR KNF

40% Glass fiber Reinforced, Heat Stabilized, Nylon 6 Resin.

NYCOA ASN 27 400 SR KNF is a 40% glass fiber reinforced, heat stabilized Nylon 6 resin used for injection molding. This grade was specifically engineered for applications requiring high stiffness, tensile strength, and toughness.

NYCOA ASN 27 400 SR KNF is available in light stable and flame retardant grades as well as custom colors.

Typical applications include motor components, weed trimmer head, engine parts, automotive under the hood parts and housings, gears, electrical insulation and pedals.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.48	-	1.48
Water Absorption, 24 hr	D 570	%	0.9	%	0.9
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	31,908	MPa	220
Ultimate Elongation	D 638	%	4.0	%	4.0
Tensile Modulus	D 638	psi	1,667,937	MPa	11,500
Flexural Modulus	D 790	psi	1,566,410	MPa	10,800
Flexural Strength	D 790	psi	39,740	MPa	274
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	412	°C	211
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	401	°C	205

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.