

NYCOA ASN 27 300 KNF

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

NYCOA ASN 27 300 KNF is a 30% glass fiber reinforced, heat 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 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, power tool housing, and lawn & garden equipment parts.

Property	Method	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	25,810	MPa	178
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.	2.7	J/m	135
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
<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>					