

NYCOA ASN 27 250 KNF

25% Glass Fiber Reinforced, Heat Stabilized Nylon 6 Resin.

NYCOA ASN 27 250 KNF is a 25% glass fiber reinforced, heat stabilized, lubricated Nylon 6 resin used for injection molding. This material is specifically engineered for applications requiring high stiffness, toughness, dimensional stability, and a greater service life than standard grades of glass reinforced Nylon 6.

NYCOA ASN 27 250 KNF is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

NYCOA ASN 27 250 KNF is suitable for injection molding and can be found in applications such as power tool housings and lawn & garden components.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.32	-	1.32
Water Absorption, 24 hr	D 570	%	1.0	%	1.0
Linear Mold Shrinkage (Parallel)	D 955	%	0.4	%	0.4
Linear Mold Shrinkage (Normal)	D 955	%	0.6	%	0.6
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
Tensile Modulus	D 638	psi	1,167,250	MPa	8,050
Flexural Modulus	D 790	psi	1,004,850	MPa	6,930
Flexural Strength	D 790	psi	34,075	MPa	235
Notched Izod Impact	D 256	ft.lbs./in.	0.8	J/m	42
Thermal Properties					
Melting Temperature	D 789	°F	428	°C	220
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	424	°C	218
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	399	°C	204

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.