

NYCOA ASN 27 150 KNF

15% Glass Fiber Reinforced, Heat Stabilized Nylon 6 Resin.

NYCOA ASN 27 150 KNF is a 15% glass fiber reinforced and heat stabilized Nylon 6 resin used for injection molding. This grade features outstanding stiffness and dimensional stability.

NYCOA ASN 27 150 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 electrical connectors, pipe fittings, and automotive housings.

| Property | Method | English | | SI | |
|---|--------|-------------|---------|------|-------|
| | | Unit | Value | Unit | Value |
| Physical Properties | | | | | |
| Specific Gravity | D 792 | - | 1.22 | - | 1.22 |
| Water Absorption, 24 hr | D 570 | % | 1.1 | % | 1.1 |
| Linear Mold Shrinkage (Parallel) | D 955 | % | 0.5 | % | 0.5 |
| Linear Mold Shrinkage (Normal) | D 955 | % | 0.8 | % | 0.8 |
| Mechanical Properties | | | | | |
| Hardness, Rockwell (R Scale) | D 785 | - | 120 | - | 120 |
| Tensile Strength | D 638 | psi | 17,405 | MPa | 120 |
| Ultimate Elongation | D 638 | % | 4.0 | % | 4.0 |
| Tensile Modulus | D 638 | psi | 725,190 | MPa | 5,000 |
| Flexural Modulus | D 790 | psi | 700,000 | MPa | 4,830 |
| Flexural Strength | D 790 | psi | 21,756 | MPa | 150 |
| Notched Izod Impact | D 256 | ft.lbs./in. | 1.2 | J/m | 60 |
| 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 | 397 | °C | 203 |
| <small>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.</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> | | | | | |