

NYCOA ASN 27 300 KNF 30% Glass Fiber Reinforced, Heat Stabilized Nylon 6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

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. Information provided by Nycoa, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NYCOA-ASN-27-300-KNF-30-Glass-Fiber-Reinforced-Heat-Stabilized-Nylon-6-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	178 MPa	25800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	9.45 GPa	1370 ksi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	8.22 GPa	1190 ksi	ASTM D790
Izod Impact, Notched	1.35 J/cm	2.53 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

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