

NYCOA 5100 HS Heat Stabilized, Impact Modified Nylon 66 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

Material Notes:

NYCOA 5100 HS is an impact modified, heat stabilized Nylon 66 resin used for injection molding. This material is specially formulated to provide improved flexibility and ductility vs standard Nylon 66. NYCOA 5100 HS offers outstanding toughness, exceptional processability, and a greater service life at elevated temperatures than standard grades of Nylon 66. It is available in UV stable, and custom colors grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons. Typical applications include automotive wiring harnesses, motor component housings, gears, and electrical connectors. Information provided by Nycoa, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NYCOA-5100-HS-Heat-Stabilized-Impact-Modified-Nylon-66-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	2.22 GPa	322 ksi	ASTM D790
Izod Impact, Notched	1.35 J/cm	2.53 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	258 °C	496 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	189 °C	372 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D648

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