

NYCOA 5033 HST 33% Glass-Fiber Reinforced, Heat Stabilized, Translucent Nylon 66 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

NYCOA 5033 HST is a 33% glass fiber reinforced, heat stabilized, translucent Nylon 66 resin used for injection molding. It has been specifically formulated for see through storage tanks for automotive fluids. NYCOA 5033 HST has excellent chemical resistance to most greases, oils and other hydrocarbons, high thermal resistance and translucency. Typical automotive under the hood applications include reservoir bottles for brake oil, transmission fluid, engine coolant, and power steering fluid. It also finds application in fuel tanks for ATVs, lawn & garden equipment and handheld machines. Information provided by Nycoa, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NYCOA-5033-HST-33-Glass-Fiber-Reinforced-Heat-Stabilized-Translucent-Nylon-66-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	260 MPa	37700 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.0 J/cm	18.7 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ASTM D648

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