

Ravago Manufacturing Americas Hylon® N1000STHL HF Nylon 6/6 (discontinued **)

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

Material Notes:

Available in North America Additive: Heat Stabilizer and Lubricant Features: Lubricated, Heat Stabilized, High Flow and Ultra High Toughness RoHS Compliant Auto Specifications: DELPHI DCM 4849 Color: Black, FORD WSK-M4D666-A Color: Black, FORD WSK-M4D666-A Color: Natural Form: Pellets Processing Method: Injection Molding Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1000STHL-HF-Nylon-66-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------|---------------------------|-------------------------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | ASTM D792 |
| Density | 1.08 g/cc | 0.0390 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.017 - 0.021 cm/cm | 0.017 - 0.021 in/in | ASTM D955 and ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------|
| Tensile Strength, Yield | 57.0 MPa | 8270 psi | ISO 527-2 |
| | 57.9 MPa | 8400 psi | ASTM D638 |
| Elongation at Break | 45 % | 45 % | ISO 527-2 |
| | 50 % | 50 % | ASTM D638 |
| Flexural Strength | 70.3 MPa | 10200 psi | ASTM D790 |
| | 73.8 MPa | 10700 psi | ISO 178 |
| Flexural Modulus | 1.83 GPa | 265 ksi | ASTM D790 |
| | 1.90 GPa | 276 ksi | ISO 178 |
| Izod Impact, Notched | 8.54 J/cm | 16.0 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 60.9 kJ/m ² | 29.0 ft-lb/in ² | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------|----------------------|------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 62.2 °C | 144 °F | Unannealed; ASTM D648 |
| | 63.9 °C | 147 °F | Unannealed; ISO 75-2/A |
| Flammability, UL94 | HB | HB | |
| | @Thickness 0.787 mm | @Thickness 0.0310 in | |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------------------------------------|----------------------------------|-------------------|
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 266 - 277 °C | 510 - 530 °F | |
| Mold Temperature | 65.6 - 82.2 °C | 150 - 180 °F | |
| Drying Temperature | 73.9 °C @Time 7200 - 14400 sec | 165 °F @Time 2.00 - 4.00 hour | |
| Moisture Content | <= 0.18 % | <= 0.18 % | Suggested Maximum |
| Back Pressure | 0.138 - 0.345 MPa | 20.0 - 50.0 psi | |
| Screw Speed | 40 - 120 rpm | 40 - 120 rpm | |

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