

Ravago Manufacturing Americas Hylon® N2000STHL Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N2000STHL-Nylon-6-DAM.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|---------------------------|---------------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ASTM D792 |
| Water Absorption | 1.1 % | 1.1 % | 24 hrs; ASTM D570 |
| Linear Mold Shrinkage | 0.018 cm/cm | 0.018 in/in | 0.125 in; ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|-----------------|
| Hardness, Rockwell R | 78 | 78 | ASTM D785 |
| Tensile Strength, Yield | 55.2 MPa | 8000 psi | ASTM D638 |
| Elongation at Break | 50 % | 50 % | ASTM D638 |
| Flexural Strength | 62.1 MPa | 9000 psi | ASTM D790 |
| Flexural Modulus | 1.63 GPa | 236 ksi | ASTM D790 |
| Izod Impact, Notched | 8.01 J/cm | 15.0 ft-lb/in | 73°F; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------------|----------------------|-----------------------|
| CTE, linear | 106 µm/m-°C | 59.0 µin/in-°F | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 168 °C | 335 °F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.6 °C | 150 °F | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | ASTM D257 |
| Dielectric Strength | 19.7 kV/mm | 500 kV/in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 243 - 271 °C | 470 - 520 °F | |

| Processing Properties | Metric 77.8 °C | English 160 °F | Comments |
|-----------------------|-------------------|-----------------|----------|
| Drying Temperature | 73.9 °C | 165 °F | |
| Dry Time | 2 - 4 hour | 2 - 4 hour | |
| Moisture Content | 0.18 % | 0.18 % | |
| Back Pressure | 0.138 - 0.414 MPa | 20.0 - 60.0 psi | |
| Screw Speed | 40 - 120 rpm | 40 - 120 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------|----------|
| Holding Pressure | 400 to 1400 psi | |
| Injection Rate | Fast | |

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