

## Ravago Manufacturing Americas Hylon® N1000EL Nylon 6/6 (Cond) (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

### Material Notes:

Information provided by Ravago.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ravago-Manufacturing-Americas-Hylon-N1000EL-Nylon-66-Cond-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1000EL-Nylon-66-Cond-nbspdiscontinued-.php)

| Physical Properties   | Metric      | English                   | Comments                 |
|-----------------------|-------------|---------------------------|--------------------------|
| Density               | 1.14 g/cc   | 0.0412 lb/in <sup>3</sup> | DAM; ASTM D792           |
| Water Absorption      | 1.3 %       | 1.3 %                     | 24 hrs, DAM; ASTM D570   |
| Linear Mold Shrinkage | 0.015 cm/cm | 0.015 in/in               | 0.125 in, DAM; ASTM D955 |

| Mechanical Properties     | Metric    | English       | Comments        |
|---------------------------|-----------|---------------|-----------------|
| Hardness, Rockwell M      | 60        | 60            | ASTM D785       |
| Tensile Strength at Break | 65.5 MPa  | 9500 psi      | ASTM D638       |
| Elongation at Break       | 200 %     | 200 %         | ASTM D638       |
| Flexural Strength         | 40.7 MPa  | 5900 psi      | ASTM D790       |
| Flexural Modulus          | 1.31 GPa  | 190 ksi       | ASTM D790       |
| Izod Impact, Notched      | 1.33 J/cm | 2.50 ft-lb/in | 73°F; ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments              |
|---|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 221 °C  | 430 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 71.1 °C | 160 °F  | Unannealed; ASTM D648 |
| Flammability, UL94                          | V-2     | V-2     | 0.0590 in             |

| Electrical Properties | Metric                   | English                  | Comments  |
|-----------------------|--------------------------|--------------------------|-----------|
| Volume Resistivity    | 1.00e+13 ohm-cm          | 1.00e+13 ohm-cm          | ASTM D257 |
| Dielectric Constant   | 6.0<br>@Frequency 100 Hz | 6.0<br>@Frequency 100 Hz | ASTM D150 |
| Dielectric Strength   | 21.7 kV/mm               | 550 kV/in                | ASTM D149 |

| Processing Properties | Metric            | English        | Comments |
|-----------------------|-------------------|----------------|----------|
| Melt Temperature      | 271 - 293 °C      | 520 - 560 °F   |          |
| Mold Temperature      | 48.9 - 93.3 °C    | 120 - 200 °F   |          |
| Drying Temperature    | 73.9 °C           | 165 °F         |          |
| Dry Time              | 2 - 4 hour        | 2 - 4 hour     |          |
| Moisture Content      | 0.20 %            | 0.20 %         |          |
| Back Pressure         | 0.345 - 0.689 MPa | 50.0 - 100 psi |          |
| Screw Speed           | 40 - 140 rpm      | 40 - 140 rpm   |          |

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