

## Ravago Manufacturing Americas Hylon® N1043HL Nylon 6/6 (Cond)

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

### Material Notes:

Information provided by Ravago.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ravago-Manufacturing-Americas-Hylon-N1043HL-Nylon-66-Cond.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1043HL-Nylon-66-Cond.php)

| Physical Properties   | Metric                | English                   | Comments                 |
|-----------------------|-----------------------|---------------------------|--------------------------|
| Density               | 1.49 g/cc             | 0.0538 lb/in <sup>3</sup> | DAM; ASTM D792           |
| Water Absorption      | 0.60 %                | 0.60 %                    | 24 hrs, DAM; ASTM D570   |
| Linear Mold Shrinkage | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in     | 0.125 in, DAM; ASTM D955 |

| Mechanical Properties     | Metric    | English       | Comments        |
|---------------------------|-----------|---------------|-----------------|
| Hardness, Rockwell M      | 88        | 88            | ASTM D785       |
| Tensile Strength at Break | 152 MPa   | 22000 psi     | ASTM D638       |
| Elongation at Break       | 3.0 %     | 3.0 %         | ASTM D638       |
| Flexural Strength         | 207 MPa   | 30000 psi     | ASTM D790       |
| Flexural Modulus          | 6.89 GPa  | 1000 ksi      | ASTM D790       |
| Izod Impact, Notched      | 1.71 J/cm | 3.20 ft-lb/in | 73°F; ASTM D256 |

| Thermal Properties                          | Metric | English | Comments              |
|---------------------------------------------|--------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 249 °C | 480 °F  | Unannealed; ASTM D648 |
| Flammability, UL94                          | HB     | HB      | 0.0591 in, BK         |
|                                             | HB     | HB      | 0.118 in, BK          |

| Processing Properties | Metric         | English      | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature      | 282 - 304 °C   | 540 - 580 °F |          |
| Mold Temperature      | 65.6 - 98.9 °C | 150 - 210 °F |          |
| Drying Temperature    | 73.9 °C        | 165 °F       |          |
| Dry Time              | 2 - 4 hour     | 2 - 4 hour   |          |
| Moisture Content      | 0.20 %         | 0.20 %       |          |

| Back Pressure<br>Processing Properties | 0.138 - 0.414 MPa<br>Metric | 20.0 - 60.0 psi<br>English | Comments |
|----------------------------------------|-----------------------------|----------------------------|----------|
| Screw Speed                            | 40 - 120 rpm                | 40 - 120 rpm               |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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