

Ravago Manufacturing Americas Hylon® N1030HL Nylon 6/6 (discontinued **)

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

Material Notes:

Available in North America Filler: Glass Fiber Reinforcement, 30% Filler by Weight Additive: Heat Stabilizer and Lubricant Features:

Lubricated and Heat Stabilized Auto Specifications: GM GMW3038P-PA66-GF30H Form: Pellets Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1030HL-Nylon-66-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|--|-------------------------|
| Specific Gravity | 1.37 g/cc | 1.37 g/cc | ASTM D792 |
| Density | 1.37 g/cc | 0.0495 lb/in ³ | ISO 1183 |
| Water Absorption | 0.70 % @Time 86400 sec | 0.70 % @Time 24.0 hour | ASTM D570 and ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm @Thickness 3.17 mm | 0.0030 - 0.0050 in/in @Thickness 0.125 in | ASTM D955 and ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------|
| Hardness, Rockwell M | 98 | 98 | ASTM D785 |
| Tensile Strength at Break | 180 MPa | 26100 psi | ISO 527-2 |
| | 186 MPa | 27000 psi | ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | ASTM D638 |
| | 2.0 % | 2.0 % | ISO 527-2 |
| Flexural Strength | 262 MPa | 38000 psi | ASTM D790 |
| | 262 MPa | 38000 psi | ISO 178 |
| Flexural Modulus | 8.62 GPa | 1250 ksi | ASTM D790 |
| | 8.62 GPa | 1250 ksi | ISO 178 |
| Izod Impact, Notched | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 9.03 kJ/m ² | 4.30 ft-lb/in ² | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 243 °C | 469 °F | Unannealed; ISO 75-2/A |

| Thermal Properties | 243 °C Metric | 470 °F English | Unannealed; ASTM D648 Comments |
|--------------------|--------------------------|----------------------------|-----------------------------------|
| Flammability, UL94 | HB @Thickness 1.50 mm | HB @Thickness 0.0591 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength | 20.5 kV/mm | 520 kV/in | ASTM D149 |

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