

## Ravago Manufacturing Americas Hylex® P1010G30 HB Polycarbonate, 30% Fiberglass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

### Material Notes:

Information provided by Ravago.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ravago-Manufacturing-Americas-Hylex-P1010G30-HB-Polycarbonate-30-Fiberglass-Reinforced.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1010G30-HB-Polycarbonate-30-Fiberglass-Reinforced.php)

| Physical Properties         | Metric                                                     | English                                                    | Comments                   |
|-----------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------|
| Specific Gravity            | 1.43 g/cc                                                  | 1.43 g/cc                                                  | ASTM D792                  |
| Water Absorption            | 0.12 %                                                     | 0.12 %                                                     | 24-Hr Immersion; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm                                      | 0.0010 - 0.0030 in/in                                      | ASTM D955                  |
| Melt Flow                   | 3.0 - 7.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 3.0 - 7.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | ASTM D1238                 |

| Mechanical Properties   | Metric                                                  | English                                                      | Comments  |
|-------------------------|---------------------------------------------------------|--------------------------------------------------------------|-----------|
| Hardness, Rockwell M    | 92                                                      | 92                                                           | ASTM D785 |
| Tensile Strength, Yield | 128 MPa                                                 | 18600 psi                                                    | ASTM D638 |
| Elongation at Yield     | 4.0 %                                                   | 4.0 %                                                        | ASTM D638 |
| Flexural Strength       | 166 MPa                                                 | 24100 psi                                                    | ASTM D790 |
| Flexural Modulus        | 6.897 GPa                                               | 1000 ksi                                                     | ASTM D790 |
| Izod Impact, Notched    | 1.07 J/cm<br>@Thickness 3.17 mm,<br>Temperature 22.8 °C | 2.00 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments              |
|---------------------------------------------|--------------------------|----------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 152 °C                   | 306 °F                     | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 148 °C                   | 298 °F                     | Unannealed; ASTM D648 |
| Vicat Softening Point                       | 166 °C                   | 331 °F                     | ASTM D1525            |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm | HB<br>@Thickness 0.0591 in |                       |

| Electrical Properties | Metric             | English             | Comments          |
|-----------------------|--------------------|---------------------|-------------------|
| Volume Resistivity    | 4.00e+16 ohm-cm    | 4.00e+16 ohm-cm     | ASTM D257         |
| Dielectric Strength   | 16.9 kV/mm         | 430 kV/in           | in air; ASTM D149 |
|                       | @Thickness 3.17 mm | @Thickness 0.125 in |                   |
| Arc Resistance        | 120 sec            | 120 sec             | ASTM D495         |

## Contact Songhan Plastic Technology Co.,Ltd.

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