

## Kuraray Genestar®, G1300H Nylon, 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Standard HB grade. Halogen free, following the standards that Br is less than 900ppm, Cl is less than 900ppm, and total of halogen amount (Br and Cl) is less than 1500ppm. It is suitable for use in a wide range of electrical and electronics components as UL94 HB flammability rating.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kuraray-Genestar-G1300H-Nylon-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Kuraray-Genestar-G1300H-Nylon-30-Glass-Filled.php)

| Physical Properties               | Metric                                               | English                                              | Comments       |
|-----------------------------------|------------------------------------------------------|------------------------------------------------------|----------------|
| Specific Gravity                  | 1.37 g/cc                                            | 1.37 g/cc                                            |                |
| Water Absorption                  | 1.6 %                                                | 1.6 %                                                |                |
| Linear Mold Shrinkage, Flow       | 0.0020 cm/cm                                         | 0.0020 in/in                                         |                |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm                                         | 0.0080 in/in                                         |                |
| Melt Flow                         | 45 g/10 min<br>@Load 2.16 kg,<br>Temperature 320 Â°C | 45 g/10 min<br>@Load 4.76 lb,<br>Temperature 608 Â°F | ASTM D1238     |
| Spiral Flow                       | 5.30 cm<br>@Load 750 kg,<br>Temperature 320 Â°C      | 2.09 in<br>@Load 1650 lb,<br>Temperature 608 Â°F     | 0.5mm diameter |

| Mechanical Properties | Metric    | English       | Comments        |
|-----------------------|-----------|---------------|-----------------|
| Tensile Strength      | 45.0 MPa  | 6530 psi      | Weld; ASTM D638 |
|                       | 160 MPa   | 23200 psi     | ASTM D638       |
| Elongation at Yield   | 0.60 %    | 0.60 %        | Weld; ASTM D638 |
|                       | 4.0 %     | 4.0 %         | ASTM D638       |
| Flexural Strength     | 205 MPa   | 29700 psi     | ASTM D790       |
| Flexural Modulus      | 8.50 GPa  | 1230 ksi      | ASTM D790       |
| Izod Impact, Notched  | 1.05 J/cm | 1.97 ft-lb/in | ASTM D256       |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Melting Point                               | 306 Â°C | 583 Â°F |           |
| Deflection Temperature at 1.8 MPa (264 psi) | 290 Â°C | 554 Â°F | ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Flammability, UL94 | HB     | HB      |          |

| Electrical Properties      | Metric                 | English                | Comments    |
|----------------------------|------------------------|------------------------|-------------|
| Volume Resistivity         | 1.00e+16 ohm-cm        | 1.00e+16 ohm-cm        | ASTM D257   |
| Dielectric Constant        | 3.3                    | 3.3                    | ASTM D150   |
|                            | @Frequency 1.00e+10 Hz | @Frequency 1.00e+10 Hz |             |
| Dielectric Strength        | 30.0 kV/mm             | 762 kV/in              | ASTM D149   |
| Dielectric Loss Index      | 0.0090                 | 0.0090                 | ASTM D150   |
|                            | @Frequency 1.00e+10 Hz | @Frequency 1.00e+10 Hz |             |
| Comparative Tracking Index | >= 600 V               | >= 600 V               | ASTM UL746A |

## Contact Songhan Plastic Technology Co.,Ltd.

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