

## CP-Polymer-Technik Wellamid® 6600 GS 30 HWCP 30% Glass Sphere Filled Nylon 66, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

### Material Notes:

Information provided by CP-Polymer-Technik GmbH & Co. KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CP-Polymer-Technik-Wellamid-6600-GS-30-HWCP-30-Glass-Sphere-Filled-Nylon-66-Heat-Stabilized-Dry.php](http://www.lookpolymers.com/polymer_CP-Polymer-Technik-Wellamid-6600-GS-30-HWCP-30-Glass-Sphere-Filled-Nylon-66-Heat-Stabilized-Dry.php)

| Physical Properties                | Metric                                     | English                                     | Comments              |
|------------------------------------|--|---|-----------------------|
| Density                            | 1.35 g/cc                                  | 0.0488 lb/in <sup>3</sup>                   | ISO 1183              |
| Moisture Absorption at Equilibrium | 1.8 - 2.3 %                                | 1.8 - 2.3 %                                 | 23°C/50%RH; DIN 53495 |
| Linear Mold Shrinkage              | 0.0090 - 0.011 cm/cm<br>@Thickness 4.00 mm | 0.0090 - 0.011 in/in<br>@Thickness 0.157 in |                       |

| Mechanical Properties     | Metric  | English  | Comments          |
|---------------------------|---|--|-------------------|
| Tensile Strength at Break | 83.0 MPa  | 12000 psi  | 5 mm/min; ISO 527 |
| Elongation at Break       | 5.0 %   | 5.0 %  | 5 mm/min; ISO 527 |
| Tensile Modulus           | 4.60 GPa  | 667 ksi  | ISO 527           |
| Flexural Modulus          | 4.00 GPa  | 580 ksi  | DIN 52457         |
| Charpy Impact Unnotched   | 2.50 J/cm <sup>2</sup><br>@Temperature 23.0 °C  | 11.9 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | ISO 179           |
| Charpy Impact, Notched    | 0.600 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 2.86 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | ISO 179           |

| Thermal Properties                          | Metric                                      | English                                      | Comments      |
|---|---|--|---------------|
| CTE, linear                                 | 50.0 μm/m-°C<br>@Temperature 23.0 - 80.0 °C | 27.8 μin/in-°F<br>@Temperature 73.4 - 176 °F | DIN 53752     |
| Melting Point                               | 255 °C                                      | 491 °F                                       | Kofler        |
| Deflection Temperature at 0.46 MPa (66 psi) | 205 °C                                      | 401 °F                                       | ISO 179       |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C                                      | 248 °F                                       | ISO 179       |
| Vicat Softening Point                       | 230 °C                                      | 446 °F                                       | 50 N; ISO 306 |

| Thermal Properties | Metric             | English              | Comments       |
|--------------------|--------------------|----------------------|----------------|
| Flammability, UL94 | @Thickness 1.60 mm | @Thickness 0.0630 in | Stufe; IEC 707 |
|                    | HB                 | HB                   | Stufe; IEC 707 |
|                    | @Thickness 3.20 mm | @Thickness 0.126 in  |                |

| Electrical Properties      | Metric             | English            | Comments          |
|----------------------------|--------------------|--------------------|-------------------|
| Volume Resistivity         | 1.00e+15 ohm-cm    | 1.00e+15 ohm-cm    | IEC 93            |
| Surface Resistance         | 1.00e+12 ohm       | 1.00e+12 ohm       | ISO 3915          |
| Dielectric Constant        | 4.0                | 4.0                | IEC 250           |
|                            | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |                   |
| Dielectric Strength        | 35.0 kV/mm         | 889 kV/in          | IEC 243-1         |
| Dielectric Loss Index      | 0.015              | 0.015              | At 1 MHz; IEC 250 |
| Comparative Tracking Index | 450 V              | 450 V              | Stufe; IEC 112    |

| Processing Properties | Metric        | English      | Comments |
|-----------------------|---------------|--------------|----------|
| Melt Temperature      | 265 - 290 °C  | 509 - 554 °F |          |
| Mold Temperature      | 70.0 - 100 °C | 158 - 212 °F |          |

| Descriptive Properties | Value          | Comments |
|------------------------|----------------|----------|
| Back Pressure          | Low            |          |
| Holding Pressure       | High           |          |
| Injection Speed        | Medium to High |          |
| Screw Speed            | Medium         |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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