

## CP-Polymer-Technik Wellamid® 6600 TLWCP Nylon 66, Flame Protection Grade V-2, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

### 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-TLWCP-Nylon-66-Flame-Protection-Grade-V-2-Conditioned.php](http://www.lookpolymers.com/polymer_CP-Polymer-Technik-Wellamid-6600-TLWCP-Nylon-66-Flame-Protection-Grade-V-2-Conditioned.php)

| Physical Properties                | Metric                                     | English                                     | Comments                                 |
|------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|
| Density                            | 1.13 g/cc                                  | 0.0408 lb/in <sup>3</sup>                   | ISO 1183                                 |
| Moisture Absorption at Equilibrium | 2.5 - 3.0 %                                | 2.5 - 3.0 %                                 | 23°C/50%RH, Starting when dry; DIN 53495 |
| Linear Mold Shrinkage              | 0.0080 - 0.012 cm/cm<br>@Thickness 4.00 mm | 0.0080 - 0.012 in/in<br>@Thickness 0.157 in |                                          |

| Mechanical Properties   | Metric                                         | English                                            | Comments           |
|-------------------------|------------------------------------------------|----------------------------------------------------|--------------------|
| Tensile Strength, Yield | 60.0 MPa                                       | 8700 psi                                           | 50 mm/min; ISO 527 |
| Elongation at Break     | >= 50 %                                        | >= 50 %                                            | 50 mm/min; ISO 527 |
| Elongation at Yield     | 20 %                                           | 20 %                                               | 50 mm/min; ISO 527 |
| Tensile Modulus         | 1.30 GPa                                       | 189 ksi                                            | ISO 527            |
| Charpy Impact Unnotched | NB<br>@Temperature 23.0 °C                     | NB<br>@Temperature 73.4 °F                         | ISO 179            |
| Charpy Impact, Notched  | 1.70 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 8.09 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | ISO 179            |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Melting Point      | 255 °C | 491 °F  | Kofler   |

| Electrical Properties | Metric                    | English                   | Comments |
|-----------------------|---------------------------|---------------------------|----------|
| Volume Resistivity    | 1.00e+12 ohm-cm           | 1.00e+12 ohm-cm           | IEC 93   |
| Surface Resistance    | 1.00e+10 ohm              | 1.00e+10 ohm              | ISO 3915 |
| Dielectric Constant   | 5.0<br>@Frequency 1e+6 Hz | 5.0<br>@Frequency 1e+6 Hz | IEC 250  |

| Electrical Properties | Metric | English | Comments          |
|-----------------------|--------|---------|-------------------|
| Dielectric Loss Index | 0.20   | 0.20    | At 1 MHz; IEC 250 |

| Processing Properties | Metric         | English      | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature      | 260 - 290 °C   | 500 - 554 °F |          |
| Mold Temperature      | 50.0 - 90.0 °C | 122 - 194 °F |          |

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

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