

# WELLAMID Nylon 6000 GS 50 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GS 50 HWCP is a Polyamide 6 (Nylon 6) material filled with 50% glass bead. It is available in Europe.

Important attributes of WELLAMID Nylon 6000 GS 50 HWCP are:

Flame Rated

Heat Stabilizer

| General Information                             |             |                                 |                   |             |
|-------------------------------------------------|-------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement                          |             | Glass Bead,50% Filler by Weight |                   |             |
| Additive                                        |             | Heat Stabilizer                 |                   |             |
| Features                                        |             | Heat Stabilized                 |                   |             |
| Physical                                        | Dry         | Conditioned                     | Unit              | Test Method |
| Density                                         | 1.55        | --                              | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                               |             |                                 |                   | ISO 294-4   |
| Across Flow : 4.00 mm                           | 0.80 to 1.0 | --                              | %                 |             |
| Flow : 4.00 mm                                  | 0.80 to 1.0 | --                              | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 1.5 to 2.0  | --                              | %                 | ISO 62      |
| Mechanical                                      | Dry         | Conditioned                     | Unit              | Test Method |
| Tensile Modulus                                 | 5800        | 2700                            | MPa               | ISO 527-2   |
| Tensile Stress (Break)                          | 85.0        | 55.0                            | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                          | 6.5         | 18                              | %                 | ISO 527-2/5 |
| Flexural Modulus                                | 5200        | --                              | MPa               | DIN 52457   |
| Impact                                          | Dry         | Conditioned                     | Unit              | Test Method |
| Charpy Notched Impact<br>Strength (23°C)        | 7.0         | 18                              | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact<br>Strength (23°C)      | 50          | 70                              | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                         | Dry         | Conditioned                     | Unit              | Test Method |
| Heat Deflection<br>Temperature                  |             |                                 |                   |             |
| 0.45 MPa, Unannealed                            | 190         | --                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                             | 80.0        | --                              | °C                | ISO 75-2/A  |
| Vicat Softening<br>Temperature                  | 200         | --                              | °C                | ISO 306/B50 |
| Melting Temperature                             | 215         | --                              | °C                |             |
| CLTE - Flow (23 to 80°C)                        | 3.5E-5      | --                              | cm/cm/°C          | DIN 53752   |
| Electrical                                      | Dry         | Conditioned                     | Unit              | Test Method |
| Surface Resistivity                             | 1.0E+12     | 1.0E+10                         | ohms              | IEC 60093   |
| Volume Resistivity                              | 1.0E+15     | 1.0E+12                         | ohms · cm         | IEC 60093   |
| Electric Strength                               | 35          | 35                              | kV/mm             | IEC 60243-1 |

|                               |              |             |      |             |
|-------------------------------|--------------|-------------|------|-------------|
| Relative Permittivity (1 MHz) | 4.00         | 6.00        |      | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.020        | 0.20        |      | IEC 60250   |
| Comparative Tracking Index    | 450          | --          | V    | IEC 60112   |
| Flammability                  | Dry          | Conditioned | Unit | Test Method |
| Flame Rating                  |              |             |      | UL 94       |
| 1.60 mm                       | HB           | --          |      |             |
| 3.20 mm                       | HB           | --          |      |             |
| Injection                     | Dry          | Unit        |      |             |
| Processing (Melt) Temp        | 250 to 270   |             | °C   |             |
| Mold Temperature              | 60.0 to 90.0 |             | °C   |             |
| Injection Rate                | Moderate     |             |      |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

