

# WELLAMID Nylon 6000 GV 25 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GV 25 HWCP is a polyamide 6 (nylon 6) material, which contains a 25% glass fiber reinforced material. This product is available in Europe.  
The main features of WELLAMID Nylon 6000 GV 25 HWCP are:  
flame retardant/rated flame  
heat stabilizer  
The typical application field of WELLAMID Nylon 6000 GV 25 HWCP is: automotive industry

| General Information                             |           |                                                       |                   |             |
|-------------------------------------------------|-----------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                          |           | Glass fiber reinforced material, 25% filler by weight |                   |             |
| Additive                                        |           | heat stabilizer                                       |                   |             |
| Features                                        |           | Thermal Stability                                     |                   |             |
| Physical                                        | Dry       | Conditioned                                           | Unit              | Test Method |
| Density                                         | 1.32      | --                                                    | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                               |           |                                                       |                   | ISO 294-4   |
| Vertical flow direction:<br>4.00mm              | 0.80      | --                                                    | %                 | ISO 294-4   |
| Flow direction: 4.00mm                          | 0.20      | --                                                    | %                 | ISO 294-4   |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 2.0 - 2.5 | --                                                    | %                 | ISO 62      |
| Mechanical                                      | Dry       | Conditioned                                           | Unit              | Test Method |
| Tensile Modulus                                 | 8200      | 5600                                                  | MPa               | ISO 527-2   |
| Tensile Stress (Break)                          | 160       | 100                                                   | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                          | 3.0       | 7.0                                                   | %                 | ISO 527-2/5 |
| Flexural Modulus                                | 7100      | --                                                    | MPa               | DIN 52457   |
| Impact                                          | Dry       | Conditioned                                           | Unit              | Test Method |
| Charpy Notched Impact<br>Strength (23°C)        | 12        | 25                                                    | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact<br>Strength (23°C)      | 82        | 110                                                   | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                         | Dry       | Conditioned                                           | Unit              | Test Method |
| Heat Deflection Temperature                     |           |                                                       |                   |             |
| 0.45 MPa, not annealed                          | 220       | --                                                    | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                           | 200       | --                                                    | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                     | 200       | --                                                    | °C                | ISO 306/B50 |
| Melting Temperature                             | 215       | --                                                    | °C                |             |
| CLTE - Flow (23 to 80°C)                        | 2.5E-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   |
| Dielectric Strength           | 40            | 35          | kV/mm   | IEC 60243-1 |
| Relative Permittivity (1 MHz) | 4.00          | 7.00        |         | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.023         | 0.24        |         | IEC 60250   |
| Comparative Tracking Index    | 550           | --          | V       | IEC 60112   |
| Flammability                  | Dry           | Conditioned | Unit    | Test Method |
| Flame Rating                  |               |             |         | UL 94       |
| 1.60 mm                       | HB            | --          |         | UL 94       |
| 3.20 mm                       | HB            | --          |         | UL 94       |
| Injection                     | Dry           | Unit        |         |             |
| Processing (Melt) Temp        | 250 - 280     |             | °C      |             |
| Mold Temperature              | 60.0 - 90.0   |             | °C      |             |
| Injection Rate                | Moderate-Fast |             |         |             |

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