

# WELLAMID Nylon 6600 HWUVCP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600 HWUVCP is a Polyamide 66 (Nylon 66) material. It is available in Europe.

Important attributes of WELLAMID Nylon 6600 HWUVCP are:

- Flame Rated
- Good UV Resistance
- Heat Stabilizer
- UV Stabilized

| General Information                             |             |                    |                   |              |
|-------------------------------------------------|-------------|--------------------|-------------------|--------------|
| Additive                                        |             | Heat Stabilizer    |                   |              |
|                                                 |             | UV Stabilizer      |                   |              |
| Features                                        |             | Good UV Resistance |                   |              |
|                                                 |             | Heat Stabilized    |                   |              |
| Physical                                        | Dry         | Conditioned        | Unit              | Test Method  |
| Density                                         | 1.13        | --                 | g/cm <sup>3</sup> | ISO 1183     |
| Molding Shrinkage                               |             |                    |                   | ISO 294-4    |
| Across Flow : 4.00 mm                           | 0.80 to 1.2 | --                 | %                 |              |
| Flow : 4.00 mm                                  | 0.80 to 1.2 | --                 | %                 |              |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 2.5 to 3.0  | --                 | %                 | ISO 62       |
| Mechanical                                      | Dry         | Conditioned        | Unit              | Test Method  |
| Tensile Modulus                                 | 3200        | 1300               | MPa               | ISO 527-2    |
| Tensile Stress (Yield)                          | 85.0        | 60.0               | MPa               | ISO 527-2/50 |
| Tensile Strain                                  |             |                    |                   | ISO 527-2/50 |
| Yield                                           | 5.0         | 20                 | %                 |              |
| Break                                           | 20          | > 50               | %                 |              |
| Flexural Modulus                                | 2800        | --                 | MPa               | DIN 52457    |
| Impact                                          | Dry         | Conditioned        | Unit              | Test Method  |
| Charpy Notched Impact<br>Strength (23°C)        | 6.0         | 17                 | kJ/m <sup>2</sup> | ISO 179      |
| Charpy Unnotched Impact<br>Strength (23°C)      | No Break    | No Break           |                   | ISO 179      |
| Thermal                                         | Dry         | Conditioned        | Unit              | Test Method  |
| Heat Deflection Temperature                     |             |                    |                   |              |
| 0.45 MPa, Unannealed                            | 200         | --                 | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed                             | 75.0        | --                 | °C                | ISO 75-2/A   |

|                               |               |             |          |             |
|-------------------------------|---------------|-------------|----------|-------------|
| Vicat Softening Temperature   | 230           | --          | °C       | ISO 306/B50 |
| Melting Temperature           | 255           | --          | °C       |             |
| CLTE - Flow (23 to 80°C)      | 8.5E-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             | 30            | 30          | kV/mm    | IEC 60243-1 |
| Relative Permittivity (1 MHz) | 3.40          | 5.00        |          | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.025         | 0.20        |          | IEC 60250   |
| Comparative Tracking Index    | 600           | --          | V        | IEC 60112   |
| Flammability                  | Dry           | Conditioned | Unit     | Test Method |
| Flame Rating                  |               |             |          | UL 94       |
| 1.60 mm                       | V-2           | --          |          |             |
| 3.20 mm                       | V-2           | --          |          |             |
| Injection                     | Dry           | Unit        |          |             |
| Processing (Melt) Temp        | 260 to 280    |             | °C       |             |
| Mold Temperature              | 50.0 to 92.0  |             | °C       |             |
| Injection Rate                | Moderate-Fast |             |          |             |

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