

# WELLAMID Nylon 6000 MF 30 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 MF 30 HWCP is a Polyamide 6 (Nylon 6) material filled with 30% milled glass fiber. It is available in Europe.

Important attributes of WELLAMID Nylon 6000 MF 30 HWCP are:

Flame Rated

Heat Stabilizer

| General Information                             |            |                                         |                   |             |
|-------------------------------------------------|------------|-----------------------------------------|-------------------|-------------|
| Filler / Reinforcement                          |            | Milled Glass Fiber,30% Filler by Weight |                   |             |
| Additive                                        |            | Heat Stabilizer                         |                   |             |
| Features                                        |            | Heat Stabilized                         |                   |             |
| Physical                                        | Dry        | Conditioned                             | Unit              | Test Method |
| Density                                         | 1.32       | --                                      | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                               |            |                                         |                   | ISO 294-4   |
| Across Flow : 4.00 mm                           | 0.70       | --                                      | %                 |             |
| Flow : 4.00 mm                                  | 0.50       | --                                      | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 1.8 to 2.3 | --                                      | %                 | ISO 62      |
| Mechanical                                      | Dry        | Conditioned                             | Unit              | Test Method |
| Tensile Modulus                                 | 7500       | 5000                                    | MPa               | ISO 527-2   |
| Tensile Stress (Break)                          | 130        | 80.0                                    | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                          | 3.0        | 6.0                                     | %                 | ISO 527-2/5 |
| Flexural Modulus                                | 6100       | --                                      | MPa               | DIN 52457   |
| Impact                                          | Dry        | Conditioned                             | Unit              | Test Method |
| Charpy Notched Impact<br>Strength (23°C)        | 10         | 22                                      | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact<br>Strength (23°C)      | 35         | 70                                      | kJ/m <sup>2</sup> | 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                             | 140        | --                                      | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                     | 200        | --                                      | °C                | ISO 306/B50 |
| Melting Temperature                             | 215        | --                                      | °C                |             |
| CLTE - Flow (23 to 80°C)                        | 3.0E-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                               | 40         | 35                                      | kV/mm             | IEC 60243-1 |

|                               |               |             |      |             |
|-------------------------------|---------------|-------------|------|-------------|
| Relative Permittivity (1 MHz) | 4.00          | 7.00        |      | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.022         | 0.20        |      | IEC 60250   |
| Comparative Tracking Index    | 550           | --          | 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 280    |             | °C   |             |
| Mold Temperature              | 60.0 to 90.0  |             | °C   |             |
| Injection Rate                | Moderate-Fast |             |      |             |

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