

BASF Ultramid® T 4381 LDS 10/25% Glass/Mineral Filled PA6/6T (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Description: Ultramid® T 4381 LDS is a semi-crystalline, partially aromatic high temperature polyamide (PA6/6T) for laser direct structuring (LPKFLDS®). As the material is reinforced with 10% fiberglass and 25% mineral filling, high-strength mechatronic plastic parts can be manufactured efficiently, quickly and flexibly with LDS. The innovative material offers a broad processing window for optimal results regarding: laser activation, metallization, adhesion of the conductors. Ultramid T 4381 LDS is based on Ultramid T and offers an ideal combination of high melting temperature, good processability and low water absorption. This specialty from BASF's engineering plastics is already being used in electrical engineering and automotive construction, especially where high heat distortion temperature is required. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-T-4381-LDS-1025-GlassMineral-Filled-PA66T-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|---------------------------|----------------|
| Density | 1.52 g/cc | 0.0549 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.80 - 1.2 % | 0.80 - 1.2 % | 50% RH; ISO 62 |
| Viscosity Measurement | 130 | 130 | ISO 307 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|--------------------|
| Tensile Strength at Break | 110 MPa | 16000 psi | 5mm/min; ISO 527-2 |
| Tensile Strength, Yield | 48.0 MPa | 6960 psi | ISO 527 |
| Elongation at Break | 2.1 % | 2.1 % | ISO 527-2 |
| Elongation at Yield | 5.0 % | 5.0 % | ISO 527 |
| Tensile Modulus | 9.00 GPa | 1310 ksi | ISO 527-2 |
| Charpy Impact Unnotched | 4.00 J/cm ² @Temperature 23.0 °C | 19.0 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|-----------|
| CTE, linear, Parallel to Flow | 30.0 µm/m-°C | 16.7 µin/in-°F | DIN 53152 |
| CTE, linear, Transverse to Flow | 50.0 µm/m-°C | 27.8 µin/in-°F | DIN 53752 |
| Melting Point | 295 °C | 563 °F | ISO 3146 |
| Deflection Temperature at 0.46 MPa (66 psi) | 265 °C | 509 °F | ISO 75-2 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Volume Resistivity | 4.00e+12 ohm-cm | 4.00e+12 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+16 ohm | >= 1.00e+16 ohm | ISO 60093 |
| Dielectric Constant | 4.4 | 4.4 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dissipation Factor | 0.015 | 0.015 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Color | Black | |
| Commercial Status | Europe | |

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