

Ter Hell Plastic Terez® PA 6 7500 GF 30 Polyamide 6, 30% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Description: Medium viscosity Polyamide 6, 30% glass fiber reinforced, good flowability, good impact resistance and bright natural color. Application: For molding parts with good stiffness and good impact resistance. Information provided by Ter Hell Plastic GMBH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ter-Hell-Plastic-Terez-PA-6-7500-GF-30-Polyamide-6-30-Glass-Fiber-Reinforced.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------|-----------|----------|
| Specific Gravity | 1.35 g/cc | 1.35 g/cc | ISO 1183 |
| Water Absorption | 6.3 % | 6.3 % | ISO 62 |
| Moisture Absorption at Equilibrium | 1.9 % | 1.9 % | ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|--------------|
| Tensile Strength | 180 MPa | 26100 psi | dry; ISO 527 |
| Tensile Strength, Yield | 180 MPa | 26100 psi | dry; ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | dry; ISO 527 |
| Tensile Modulus | 9.50 GPa | 1380 ksi | dry; ISO 527 |
| Charpy Impact Unnotched | 8.50 J/cm ² | 40.4 ft-lb/in ² | dry; ISO 179 |
| Charpy Impact, Notched | 1.50 J/cm ² | 7.14 ft-lb/in ² | dry; ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|---------------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 210 °C | 410 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 195 °C | 383 °F | ISO 75 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |
| Glow Wire Test | 650 °C @Thickness 2.00 mm | 1200 °F @Thickness 0.0787 in | IEC 60695 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|-----------|
| Comparative Tracking Index | 550 V | 550 V | IEC 60112 |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------|--------------|----------|
| Processing Temperature | 240 - 270 °C | 464 - 518 °F | |
| Drying Temperature | 80.0 °C | 176 °F | |
| Dry Time | 4 hour | 4 hour | |

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