# Nilit FRIANYL B63 HS-GV10 Nylon 6 for injection molding, 10% glass fiber reinforced

**Category :** Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 10% Glass Fiber Filled

**Material Notes:**

Nylon 6 for injection molding, high impact modified.Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:
http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-HS-GV10-Nylon-6-for-injection-molding-10-glass-fiber-reinforced.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.18 g/cc | 0.0426 lb/in³ | ISO 1183 |
| Water Absorption | 2.0 - 3.0 % | 2.0 - 3.0 % | ISO 62 |
| Water Absorption at Saturation | 7.0 - 8.0 % | 7.0 - 8.0 % | ISO 62 |
| Viscosity Measurement | 145 | 145 | Viscosity index; ISO 307 |
| Linear Mold Shrinkage | 0.010 - 0.018 cm/cm | 0.010 - 0.018 in/in | FRISETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Ball Indentation Hardness | 130 MPa | 18900 psi | ISO 2039-1 |
| Tensile Strength at Break | 90.0 MPa | 13100 psi | ISO 527 |
| Elongation at Break | 8.0 % | 8.0 % | ISO 527 |
| Tensile Modulus | 3.80 GPa | 551 ksi | ISO 527 |
| Flexural Strength | 110 MPa | 16000 psi | ISO 178 |
| Flexural Modulus | 3.40 GPa | 493 ksi | ISO 178 |
| Charpy Impact Unnotched | 5.00 J/cm² | 23.8 ft-lb/in² | DIN 53453 |
| | NB | NB | ISO 179/1eU |
| | 4.50 J/cm²<br>@Temperature -40.0 °C | 21.4 ft-lb/in²<br>@Temperature -40.0 °F | DIN 53453 |
| Charpy Impact, Notched | 1.30 J/cm² | 6.19 ft-lb/in² | DIN 53453 |
| | 1.40 J/cm² | 6.66 ft-lb/in² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Melting Point | 221 °C | 430 °F | ISO 3146 DSC |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Maximum Service Temperature, Air | 100 °C | 212 °F | Continuous; FRISETTA Test Method |
| Deflection Temperature at 0.46 MPa (66 psi) | 200 °C | 392 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 160 °C | 320 °F | ISO 75 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 93 |
| Dissipation Factor | 0.020<br>@Frequency 1e+6 Hz | 0.020<br>@Frequency 1e+6 Hz | IEC 250 |
| Comparative Tracking Index | 550 V | 550 V | CTI 100; IEC 112 |

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