

Nilit FRIANYL A63 GV10 Nylon 6.6 for injection molding, 10% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Nylon 6.6 for injection molding Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-GV10-Nylon-66-for-injection-molding-10-glass-fiber-reinforced.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|----------------------|---------------------------|--------------------------|
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ISO 1183 |
| Water Absorption | 1.5 - 2.2 % | 1.5 - 2.2 % | ISO 62 |
| Water Absorption at Saturation | 6.0 - 8.0 % | 6.0 - 8.0 % | ISO 62 |
| Viscosity Measurement | 145 | 145 | Viscosity index; ISO 307 |
| Linear Mold Shrinkage | 0.0080 - 0.020 cm/cm | 0.0080 - 0.020 in/in | FRISSETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|-------------|
| Ball Indentation Hardness | 150 MPa | 21800 psi | ISO 2039-1 |
| Tensile Strength at Break | 110 MPa | 16000 psi | ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527 |
| Tensile Modulus | 5.00 GPa | 725 ksi | ISO 527 |
| Flexural Strength | 115 MPa | 16700 psi | ISO 178 |
| Flexural Modulus | 4.20 GPa | 609 ksi | ISO 178 |
| Charpy Impact Unnotched | 3.00 J/cm ² | 14.3 ft-lb/in ² | DIN 53453 |
| | 3.20 J/cm ² | 15.2 ft-lb/in ² | ISO 179/1eU |
| | 2.50 J/cm ² @Temperature -40.0 °C | 11.9 ft-lb/in ² @Temperature -40.0 °F | DIN 53453 |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | ISO 179/1eA |
| | 0.600 J/cm ² | 2.86 ft-lb/in ² | DIN 53453 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------|
| Melting Point | 256 °C | 493 °F | ISO 3146 DSC |

| Maximum Service Temperature, Air Thermal Properties | 105 °C Metric | 221 °F English | Continuous; FRISETTA Test Method Comments |
|---|------------------|-------------------|--|
| Deflection Temperature at 0.46 MPa (66 psi) | 250 °C | 482 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 250 °C | 482 °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 @Frequency 1e+6 Hz | 0.020 @Frequency 1e+6 Hz | IEC 250 |
| Comparative Tracking Index | 550 V | 550 V | CTI 100; IEC 112 |

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