

Nilit FRIANYL A63 GV40 Nylon 6.6 for injection molding, 40% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% 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-GV40-Nylon-66-for-injection-molding-40-glass-fiber-reinforced.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|----------------------|---------------------------|--------------------------|
| Density | 1.43 g/cc | 0.0517 lb/in ³ | ISO 1183 |
| Water Absorption | 0.90 - 1.9 % | 0.90 - 1.9 % | ISO 62 |
| Water Absorption at Saturation | 3.5 - 5.5 % | 3.5 - 5.5 % | ISO 62 |
| Viscosity Measurement | 145 | 145 | Viscosity index; ISO 307 |
| Linear Mold Shrinkage | 0.0030 - 0.011 cm/cm | 0.0030 - 0.011 in/in | FRISSETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|------------|
| Ball Indentation Hardness | 185 MPa | 26800 psi | ISO 2039-1 |
| Tensile Strength at Break | 210 MPa | 30500 psi | ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | ISO 527 |
| Tensile Modulus | 13.0 GPa | 1890 ksi | ISO 527 |
| Flexural Strength | 250 MPa | 36300 psi | ISO 178 |
| Flexural Modulus | 11.9 GPa | 1730 ksi | ISO 178 |
| Charpy Impact Unnotched | 5.40 J/cm ² | 25.7 ft-lb/in ² | DIN 53453 |
| | 5.00 J/cm ² | 23.8 ft-lb/in ² | DIN 53453 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Charpy Impact, Notched | 1.50 J/cm ² | 7.14 ft-lb/in ² | DIN 53453 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------------------|
| Melting Point | 256 °C | 493 °F | ISO 3146 DSC |
| Maximum Service Temperature, Air | 125 °C | 257 °F | Continuous; FRISSETTA Test Method |
| Deflection Temperature at 0.46 MPa (66 psi) | 250 °C | 482 °F | ISO 75 |

| Thermal Properties | Metric | English | Comments |
|--|-----------------------------|-----------------------------|------------------|
| Deflection Temperature at 1.8 MPa (204 psi) | | | |
| 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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