

Nilit FRIANYL A63 KV25 Nylon 6.6 for injection molding, 25% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-KV25-Nylon-66-for-injection-molding-25-glass-ball-reinforced.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---------------------|---------------------------|--------------------------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ISO 1183 |
| Water Absorption | 1.7 - 2.7 % | 1.7 - 2.7 % | 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 | 0.012 - 0.020 cm/cm | 0.012 - 0.020 in/in | FRISSETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|-------------|
| Ball Indentation Hardness | 170 MPa | 24700 psi | ISO 2039-1 |
| Tensile Strength at Break | 87.0 MPa | 12600 psi | ISO 527 |
| Elongation at Break | 6.0 % | 6.0 % | ISO 527 |
| Tensile Modulus | 4.20 GPa | 609 ksi | ISO 527 |
| Flexural Strength | 115 MPa | 16700 psi | ISO 178 |
| Flexural Modulus | 3.20 GPa | 464 ksi | ISO 178 |
| Charpy Impact Unnotched | 3.10 J/cm ² | 14.8 ft-lb/in ² | ISO 179/1eU |
| | 1.90 J/cm ² @Temperature -30.0 °C | 9.04 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| Charpy Impact, Notched | 0.450 J/cm ² | 2.14 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------------------|
| Melting Point | 256 °C | 493 °F | ISO 3146 DSC |
| Maximum Service Temperature, Air | 100 °C | 212 °F | Continuous; FRISSETTA Test Method |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °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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