

Nilit FRIANYL B63 V0 Nylon 6.6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Nylon 6.6 for injection molding, flame retardant, free of halogen and phosphorus. 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-V0-Nylon-66-for-injection-molding.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---------------------|---------------------------|--------------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | 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 | 0.012 - 0.025 cm/cm | 0.012 - 0.025 in/in | FRISSETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|-------------|
| Ball Indentation Hardness | 135 MPa | 19600 psi | ISO 2039-1 |
| Tensile Strength at Break | 60.0 MPa | 8700 psi | ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527 |
| Tensile Modulus | 3.50 GPa | 508 ksi | ISO 527 |
| Flexural Strength | 90.0 MPa | 13100 psi | ISO 178 |
| Flexural Modulus | 3.30 GPa | 479 ksi | ISO 178 |
| Charpy Impact Unnotched | 3.00 J/cm ² | 14.3 ft-lb/in ² | DIN 53453 |
| | NB | NB | ISO 179/1eU |
| | 2.00 J/cm ² | 9.52 ft-lb/in ² | DIN 53453 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Charpy Impact, Notched | 0.500 J/cm ² | 2.38 ft-lb/in ² | ISO 179/1eA |
| | 0.500 J/cm ² | 2.38 ft-lb/in ² | DIN 53453 |

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

| Maximum Service Temperature, Air Thermal Properties | 125 °C Metric | 257 °F English | Continuous; FRISETTA Test Method Comments |
|---|------------------|-------------------|--|
| Deflection Temperature at 0.46 MPa (66 psi) | 185 °C | 365 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 °C | 185 °F | ISO 75 |
| Flammability, UL94 | V-0 | V-0 | |

| 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 | 600 V | 600 V | CTI 100; IEC 112 |
| | 600 V | 600 V | CTI-M 100; IEC 112 |

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