

Nilit FRIANYL A63 TF30 Nylon 6.6 for injection molding, 30% PTFE lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE 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-TF30-Nylon-66-for-injection-molding-30-PTFE-lubricated.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---------------------|---------------------------|--------------------------|
| Density | 1.25 g/cc | 0.0452 lb/in ³ | ISO 1183 |
| Water Absorption | 0.50 - 0.90 % | 0.50 - 0.90 % | ISO 62 |
| Water Absorption at Saturation | 5.0 - 6.0 % | 5.0 - 6.0 % | ISO 62 |
| Viscosity Measurement | 145 | 145 | Viscosity index; ISO 307 |
| Linear Mold Shrinkage | 0.014 - 0.020 cm/cm | 0.014 - 0.020 in/in | FRISSETTA Test Method |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|-----------|
| Tensile Strength at Break | 68.0 MPa | 9860 psi | ISO 527 |
| Elongation at Break | 5.0 % | 5.0 % | ISO 527 |
| Tensile Modulus | 1.80 GPa | 261 ksi | ISO 527 |
| Flexural Strength | 50.0 MPa | 7250 psi | ISO 178 |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | DIN 53453 |
| | 5.00 J/cm ² @Temperature -40.0 °C | 23.8 ft-lb/in ² @Temperature -40.0 °F | DIN 53453 |
| Charpy Impact, Notched | 1.40 J/cm ² | 6.66 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) | 160 °C | 320 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 °C | 167 °F | ISO 75 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|------------------|
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Comparative Tracking Index | 550 V | 550 V | CTI 100; IEC 112 |

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