

## Nilit FRIANYL B63 S10 Nylon 6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Nylon 6 for injection molding, impact modified. 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-S10-Nylon-6-for-injection-molding.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-S10-Nylon-6-for-injection-molding.php)

| Physical Properties            | Metric              | English                   | Comments                 |
|--------------------------------|---------------------|---------------------------|--------------------------|
| Density                        | 1.11 g/cc           | 0.0401 lb/in <sup>3</sup> | ISO 1183                 |
| Water Absorption               | 2.0 - 3.0 %         | 2.0 - 3.0 %               | ISO 62                   |
| Water Absorption at Saturation | 7.5 - 9.5 %         | 7.5 - 9.5 %               | ISO 62                   |
| Viscosity Measurement          | 145                 | 145                       | Viscosity index; ISO 307 |
| Linear Mold Shrinkage          | 0.010 - 0.020 cm/cm | 0.010 - 0.020 in/in       | FRISSETTA Test Method    |

| Mechanical Properties     | Metric                 | English                    | Comments    |
|---------------------------|------------------------|----------------------------|-------------|
| Ball Indentation Hardness | 120 MPa                | 17400 psi                  | ISO 2039-1  |
| Tensile Strength at Break | 60.0 MPa               | 8700 psi                   | ISO 527     |
| Elongation at Break       | 25 %                   | 25 %                       | ISO 527     |
| Tensile Modulus           | 2.60 GPa               | 377 ksi                    | ISO 527     |
| Flexural Strength         | 70.0 MPa               | 10200 psi                  | ISO 178     |
| Flexural Modulus          | 2.10 GPa               | 305 ksi                    | ISO 178     |
| Charpy Impact Unnotched   | NB                     | NB                         | ISO 179/1eU |
|                           | NB                     | NB                         | DIN 53453   |
|                           | NB                     | NB                         | ISO 179/1eU |
|                           | @Temperature -30.0 °C  | @Temperature -22.0 °F      |             |
|                           | NB                     | NB                         | DIN 53453   |
|                           | @Temperature -40.0 °C  | @Temperature -40.0 °F      |             |
| Charpy Impact, Notched    | 1.50 J/cm <sup>2</sup> | 7.14 ft-lb/in <sup>2</sup> | ISO 179/1eA |
|                           | 1.50 J/cm <sup>2</sup> | 7.14 ft-lb/in <sup>2</sup> | DIN 53453   |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Melting Point<br>Thermal Properties            | 221 °C<br>Metric | 430 °F<br>English | ISO 3146 DSC<br>Comments         |
|------------------------------------------------|------------------|-------------------|----------------------------------|
| Maximum Service Temperature, Air               | 80.0 °C          | 176 °F            | Continuous; FRISETTA Test Method |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 160 °C           | 320 °F            | ISO 75                           |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 60.0 °C          | 140 °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<br>@Frequency 1e+6 Hz | 0.020<br>@Frequency 1e+6 Hz | IEC 250          |
| Comparative Tracking Index | 500 V                       | 500 V                       | CTI 100; IEC 112 |

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