

## Nilit RECONYL B F Recycled nylon 6 for injection molding

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

### Material Notes:

Recycled nylon 6 for injection molding, highly crystallized (available only in black).Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-RECONYL-B-F-Recycled-nylon-6-for-injection-molding.php](http://www.lookpolymers.com/polymer_Nilit-RECONYL-B-F-Recycled-nylon-6-for-injection-molding.php)

| Physical Properties            | Metric              | English                   | Comments              |
|--------------------------------|---------------------|---------------------------|-----------------------|
| Density                        | 1.13 g/cc           | 0.0408 lb/in <sup>3</sup> | ISO 1183              |
| Water Absorption               | 2.2 - 3.2 %         | 2.2 - 3.2 %               | ISO 62                |
| Water Absorption at Saturation | 8.0 - 9.0 %         | 8.0 - 9.0 %               | ISO 62                |
| Linear Mold Shrinkage          | 0.015 - 0.025 cm/cm | 0.015 - 0.025 in/in       | FRISSETTA Test Method |

| Mechanical Properties     | Metric                  | English                    | Comments   |
|---------------------------|-------------------------|----------------------------|------------|
| Ball Indentation Hardness | 130 MPa                 | 18900 psi                  | ISO 2039-1 |
| Tensile Strength at Break | 75.0 MPa                | 10900 psi                  | ISO 527    |
| Elongation at Break       | 45 %                    | 45 %                       | ISO 527    |
| Tensile Modulus           | 2.70 GPa                | 392 ksi                    | ISO 527    |
| Flexural Strength         | 90.0 MPa                | 13100 psi                  | ISO 178    |
| Flexural Modulus          | 2.40 GPa                | 348 ksi                    | ISO 178    |
| Charpy Impact Unnotched   | NB                      | NB                         | DIN 53453  |
|                           | NB                      | NB                         | DIN 53453  |
|                           | @Temperature -40.0 °C   | @Temperature -40.0 °F      |            |
| Charpy Impact, Notched    | 0.400 J/cm <sup>2</sup> | 1.90 ft-lb/in <sup>2</sup> | DIN 53453  |

| Thermal Properties                          | Metric  | English | Comments                          |
|---------------------------------------------|---------|---------|-----------------------------------|
| Melting Point                               | 221 °C  | 430 °F  | ISO 3146 DSC                      |
| Maximum Service Temperature, Air            | 80.0 °C | 176 °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) | 65.0 °C | 149 °F  | ISO 75                            |

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

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