

## Nilit FRIANYL C73 H-GV15 Nylon 6.6/6 for injection molding, 15% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 20% Glass Fiber Reinforced

### Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity, heat stabilized. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-FRIANYL-C73-H-GV15-Nylon-666-for-injection-molding-15-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-C73-H-GV15-Nylon-666-for-injection-molding-15-glass-fiber-reinforced.php)

| Physical Properties            | Metric               | English                   | Comments                 |
|--------------------------------|----------------------|---------------------------|--------------------------|
| Density                        | 1.23 g/cc            | 0.0444 lb/in <sup>3</sup> | ISO 1183                 |
| Water Absorption               | 1.3 - 2.3 %          | 1.3 - 2.3 %               | ISO 62                   |
| Water Absorption at Saturation | 5.0 - 6.0 %          | 5.0 - 6.0 %               | ISO 62                   |
| Viscosity Measurement          | 155                  | 155                       | Viscosity index; ISO 307 |
| Linear Mold Shrinkage          | 0.0060 - 0.014 cm/cm | 0.0060 - 0.014 in/in      | FRISSETTA Test Method    |

| Mechanical Properties     | Metric                                          | English                                             | Comments   |
|---------------------------|-------------------------------------------------|-----------------------------------------------------|------------|
| Ball Indentation Hardness | 155 MPa                                         | 22500 psi                                           | ISO 2039-1 |
| Tensile Strength at Break | 125 MPa                                         | 18100 psi                                           | ISO 527    |
| Elongation at Break       | 5.0 %                                           | 5.0 %                                               | ISO 527    |
| Tensile Modulus           | 6.20 GPa                                        | 899 ksi                                             | ISO 527    |
| Flexural Strength         | 160 MPa                                         | 23200 psi                                           | ISO 178    |
| Flexural Modulus          | 4.90 GPa                                        | 711 ksi                                             | ISO 178    |
| Charpy Impact Unnotched   | 4.50 J/cm <sup>2</sup>                          | 21.4 ft-lb/in <sup>2</sup>                          | DIN 53453  |
|                           | 3.50 J/cm <sup>2</sup><br>@Temperature -40.0 °C | 16.7 ft-lb/in <sup>2</sup><br>@Temperature -40.0 °F | DIN 53453  |
| Charpy Impact, Notched    | 0.900 J/cm <sup>2</sup>                         | 4.28 ft-lb/in <sup>2</sup>                          | DIN 53453  |

| Thermal Properties                 | Metric | English | Comments                          |
|------------------------------------|--------|---------|-----------------------------------|
| Melting Point                      | 242 °C | 468 °F  | ISO 3146 DSC                      |
| Maximum Service Temperature, Air   | 120 °C | 248 °F  | Continuous; FRISSETTA Test Method |
| Deflection Temperature at 0.46 MPa |        |         | ISO 75                            |

| (66 psi)<br>Thermal Properties                 | 215 °C<br>Metric | 419 °F<br>English | Comments |
|------------------------------------------------|------------------|-------------------|----------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 180 °C           | 356 °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 | 550 V                       | 550 V                       | CTI 100; IEC 112 |

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