

## Nilit RECONYL A GV30 Recycled nylon 6.6 for injection molding, 30% glass fiber reinforced

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

Recycled nylon 6.6 for injection molding (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-A-GV30-Recycled-nylon-66-for-injection-molding-30-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-RECONYL-A-GV30-Recycled-nylon-66-for-injection-molding-30-glass-fiber-reinforced.php)

| Physical Properties            | Metric               | English                   | Comments              |
|--------------------------------|----------------------|---------------------------|-----------------------|
| Density                        | 1.34 g/cc            | 0.0484 lb/in <sup>3</sup> | ISO 1183              |
| Water Absorption               | 1.4 - 2.4 %          | 1.4 - 2.4 %               | ISO 62                |
| Water Absorption at Saturation | 5.5 - 6.5 %          | 5.5 - 6.5 %               | ISO 62                |
| Linear Mold Shrinkage          | 0.0040 - 0.023 cm/cm | 0.0040 - 0.023 in/in      | FRISSETTA Test Method |

| Mechanical Properties     | Metric                  | English                    | Comments    |
|---------------------------|-------------------------|----------------------------|-------------|
| Ball Indentation Hardness | 174 MPa                 | 25200 psi                  | ISO 2039-1  |
| Tensile Strength at Break | 180 MPa                 | 26100 psi                  | ISO 527     |
| Elongation at Break       | 6.0 %                   | 6.0 %                      | ISO 527     |
| Tensile Modulus           | 9.00 GPa                | 1310 ksi                   | ISO 527     |
| Flexural Strength         | 210 MPa                 | 30500 psi                  | ISO 178     |
| Flexural Modulus          | 7.20 GPa                | 1040 ksi                   | ISO 178     |
| Charpy Impact Unnotched   | 3.40 J/cm <sup>2</sup>  | 16.2 ft-lb/in <sup>2</sup> | DIN 53453   |
|                           | 3.50 J/cm <sup>2</sup>  | 16.7 ft-lb/in <sup>2</sup> | ISO 179/1eU |
|                           | 2.80 J/cm <sup>2</sup>  | 13.3 ft-lb/in <sup>2</sup> | 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> | ISO 179/1eA |
|                           | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | DIN 53453   |

| Thermal Properties               | Metric | English | Comments                          |
|----------------------------------|--------|---------|-----------------------------------|
| Melting Point                    | 256 °C | 493 °F  | ISO 3146 DSC                      |
| Maximum Service Temperature, Air | 110 °C | 230 °F  | Continuous; FRISSETTA Test Method |

| Deflection Temperature at 0.46 MPa<br>Thermal Properties<br>(psi) | 250 °C<br>Metric | 482 °F<br>English | ISO 75<br>Comments |
|-------------------------------------------------------------------|------------------|-------------------|--------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi)                    | 250 °C           | 482 °F            | ISO 75             |

## Contact Songhan Plastic Technology Co.,Ltd.

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