

## Nilit RECONYL B KV30 Recycled nylon 6 for injection molding, 30% glass ball reinforced

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

### Material Notes:

Recycled nylon 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-B-KV30-Recycled-nylon-6-for-injection-molding-30-glass-ball-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-RECONYL-B-KV30-Recycled-nylon-6-for-injection-molding-30-glass-ball-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Linear Mold Shrinkage	0.0090 - 0.017 cm/cm	0.0090 - 0.017 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527
Elongation at Break	6.0 %	6.0 %	ISO 527
Tensile Modulus	4.00 GPa	580 ksi	ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Charpy Impact Unnotched	3.60 J/cm <sup>2</sup>	17.1 ft-lb/in <sup>2</sup>	DIN 53453
	2.70 J/cm <sup>2</sup> @Temperature -40.0 °C	12.8 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 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	98.0 °C	208 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ISO 75

Thermal Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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