

## Nilit FRIANYL B63 KV50 Nylon 6 for injection molding, 50% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Nylon 6 for injection molding. 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-KV50-Nylon-6-for-injection-molding-50-glass-ball-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-KV50-Nylon-6-for-injection-molding-50-glass-ball-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.1 - 2.1 %	1.1 - 2.1 %	ISO 62
Water Absorption at Saturation	4.5 - 6.5 %	4.5 - 6.5 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0060 - 0.015 cm/cm	0.0060 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	180 MPa	26100 psi	ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	5.60 GPa	812 ksi	ISO 178
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	DIN 53453
	NB	NB	ISO 179/1eU
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	DIN 53453
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	221 °C Metric	430 °F English	ISO 3146 DSC Comments
Maximum Service Temperature, Air	115 °C	239 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	550 V	550 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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