

## Nilit FRIANYL B63 HS-GV25 Nylon 6 for injection molding, 25% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

### Material Notes:

Nylon 6 for injection molding, high impact modified. 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-HS-GV25-Nylon-6-for-injection-molding-25-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-HS-GV25-Nylon-6-for-injection-molding-25-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.011 - 0.019 cm/cm	0.011 - 0.019 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	106 MPa	15400 psi	ISO 2039-1
Tensile Strength at Break	114 MPa	16500 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	6.05 GPa	877 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	5.10 GPa	740 ksi	ISO 178
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	DIN 53453
	NB	NB	ISO 179/1eU
Charpy Impact Unnotched	5.30 J/cm <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	DIN 53453
	1.90 J/cm <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	ISO 179/1eA
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	DIN 53453

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	100 °C	212 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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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