

## Nilit FRIANYL A63 GV50 Nylon 6.6 for injection molding, 50% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

### Material Notes:

Nylon 6.6 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-A63-GV50-Nylon-66-for-injection-molding-50-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-GV50-Nylon-66-for-injection-molding-50-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.70 - 1.7 %	0.70 - 1.7 %	ISO 62
Water Absorption at Saturation	0.20 - 1.0 %	0.20 - 1.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0020 - 0.010 cm/cm	0.0020 - 0.010 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	ISO 2039-1
Tensile Strength at Break	230 MPa	33400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	16.0 GPa	2320 ksi	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	14.7 GPa	2130 ksi	ISO 178
Charpy Impact Unnotched	5.40 J/cm <sup>2</sup>	25.7 ft-lb/in <sup>2</sup>	DIN 53453
	NB	NB	ISO 179/1eU
	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DIN 53453
	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	130 °C Metric	266 °F English	Continuous; FRISETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °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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