

## Nilit FRIANYL A63 HS-GV15 Nylon 6.6 for injection molding, 15% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Nylon 6.6 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-A63-HS-GV15-Nylon-66-for-injection-molding-15-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-HS-GV15-Nylon-66-for-injection-molding-15-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.6 - 2.6 %	1.6 - 2.6 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	95.0 MPa	13800 psi	ISO 2039-1
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Tensile Modulus	4.40 GPa	638 ksi	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	3.30 GPa	479 ksi	ISO 178
Charpy Impact Unnotched	5.30 J/cm <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	DIN 53453
	NB	NB	ISO 179/1eU
	5.60 J/cm <sup>2</sup>	26.7 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	DIN 53453
	1.80 J/cm <sup>2</sup>	8.57 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	105 °C Metric	221 °F English	Continuous; FRISSETTA 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)	240 °C	464 °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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