

## Nilit FRIANYL A63 H-SG40 Nylon 6.6 for injection molding, 40% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Nylon 6.6 for injection molding, heat stabilized (dark natural color). 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-H-SG40-Nylon-66-for-injection-molding-40-mineral-filled.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-H-SG40-Nylon-66-for-injection-molding-40-mineral-filled.php)

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 2.0 %	1.5 - 2.0 %	ISO 62
Water Absorption at Saturation	6.0 - 8.0 %	6.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	162 MPa	23500 psi	ISO 2039-1
Tensile Strength at Break	64.0 MPa	9280 psi	ISO 527
Tensile Modulus	4.10 GPa	595 ksi	ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	3.60 GPa	522 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	DIN 53453
	2.20 J/cm <sup>2</sup> @Temperature -40.0 °C	10.5 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	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	130 °C	266 °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)	195 °C	383 °F	ISO 75

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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