

## Nilit FRIANYL A63 N-SG5 Nylon 6.6 for injection molding, 5% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Mineral Filled

### Material Notes:

Nylon 6.6 for injection molding, low viscosity. 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-N-SG5-Nylon-66-for-injection-molding-5-mineral-filled.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-N-SG5-Nylon-66-for-injection-molding-5-mineral-filled.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 2.3 %	1.5 - 2.3 %	ISO 62
Water Absorption at Saturation	6.0 - 8.0 %	6.0 - 8.0 %	ISO 62
Viscosity Measurement	140	140	Viscosity index; ISO 307
Linear Mold Shrinkage	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
Elongation at Break	14 %	14 %	ISO 527
Tensile Modulus	3.10 GPa	450 ksi	ISO 527
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	DIN 53453
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.420 J/cm <sup>2</sup>	2.00 ft-lb/in <sup>2</sup>	DIN 53453
	0.380 J/cm <sup>2</sup>	1.81 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	90.0 °C	194 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	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 @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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