

## Nilit FRIANYL A63 TF10 Nylon 6.6 for injection molding, 10% PTFE lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE 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-TF10-Nylon-66-for-injection-molding-10-PTFE-lubricated.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-TF10-Nylon-66-for-injection-molding-10-PTFE-lubricated.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.90 - 1.0 %	0.90 - 1.0 %	ISO 62
Water Absorption at Saturation	5.0 - 6.0 %	5.0 - 6.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	DIN 53453
	4.00 J/cm <sup>2</sup> @Temperature -40.0 °C	19.0 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	DIN 53453
	0.800 J/cm <sup>2</sup> @Temperature -40.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISSETTA Test Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	155 °C	311 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °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	600 V	600 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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