

## Nilit FRIANYL A63 N-V2 Nylon 6.6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

### Material Notes:

Nylon 6.6 for injection molding, low viscosity, flame retardant, halogen and phosphorus free. 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-V2-Nylon-66-for-injection-molding.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-N-V2-Nylon-66-for-injection-molding.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Water Absorption	2.2 - 3.0 %	2.2 - 3.0 %	ISO 62
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	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	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	10 %	10 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	93.0 MPa	13500 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	DIN 53453
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.500 J/cm <sup>2</sup>	2.38 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	120 °C	248 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ISO 75
Flammability, UL94	V-2	V-2	

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-M 100; IEC 112
	600 V	600 V	CTI 100; IEC 112

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