

Nilit FRIANYL A63 H Nylon 6.6 for injection molding

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-Nylon-66-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	2.5 - 3.0 %	2.5 - 3.0 %	ISO 62
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.014 - 0.024 cm/cm	0.014 - 0.024 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	20 %	20 %	ISO 527
Tensile Modulus	3.20 GPa	464 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 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	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	130 °C Metric	266 °F English	Continuous; FRISETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °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	575 V	575 V	CTI-M 100; IEC 112
	600 V	600 V	CTI 100; IEC 112

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