

Nilit FRIANYL A63 W Nylon 6.6 for injection molding

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

Material Notes:

Nylon 6.6 for injection molding, heat stabilized. 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-W-Nylon-66-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	3.20 GPa	464 ksi	ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	DIN 53453
	NB	NB	DIN 53453
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	125 °C	257 °F	Continuous; FRISSETTA Test Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	65.0 °C	149 °F	ISO 75

Electrical Properties	Metric	English	Comments
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

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