

Nilit FRIANYL B63 SI20 Nylon 6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Nylon 6 for injection molding, ionomer impact modified. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-SI20-Nylon-6-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 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	0.012 - 0.020 cm/cm	0.012 - 0.020 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	93.0 MPa	13500 psi	ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
Elongation at Break	33 %	33 %	ISO 527
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	2.10 GPa	305 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	
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	3.50 J/cm ²	16.7 ft-lb/in ²	DIN 53453
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	221 °C Metric	430 °F English	ISO 3146 DSC Comments
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75
Flammability, UL94	HB	HB	

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	450 V	450 V	CTI 100; IEC 112

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