

Nilit FRIANYL B63 CU90 Nylon 6.6 for injection molding, 90% copper filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-B63-CU90-Nylon-66-for-injection-molding-90-copper-filled.php

Physical Properties	Metric	English	Comments
Density	5.12 g/cc	0.185 lb/in ³	ISO 1183
Water Absorption	0.30 - 0.60 %	0.30 - 0.60 %	ISO 62
Water Absorption at Saturation	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0020 - 0.0070 cm/cm	0.0020 - 0.0070 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	125 MPa	18100 psi	ISO 2039-1
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527
Elongation at Break	16 %	16 %	ISO 527
Tensile Modulus	1.40 GPa	203 ksi	ISO 527
Flexural Strength	34.0 MPa	4930 psi	ISO 178
Flexural Modulus	4.30 GPa	624 ksi	ISO 178
Charpy Impact Unnotched	1.90 J/cm ²	9.04 ft-lb/in ²	DIN 53453
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
	0.800 J/cm ²	3.81 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °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
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Melting Point Thermal Properties	221 °C Metric	430 °F English	ISO 3146 DSC Comments
Maximum Service Temperature, Air	180 °C	356 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250

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