

Nilit FRIANYL A63 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-A63-CU90-Nylon-66-for-injection-molding-90-copper-filled.php

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 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	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	18.0 MPa	2610 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Tensile Modulus	1.50 GPa	218 ksi	ISO 527
Flexural Strength	35.0 MPa	5080 psi	ISO 178
Flexural Modulus	4.20 GPa	609 ksi	ISO 178
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	DIN 53453
Charpy Impact, Notched	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	180 °C	356 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

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