

Nilit FRIANYL B63 BR90 Nylon 6.6 for injection molding, 90% bronze 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-BR90-Nylon-66-for-injection-molding-90-bronze-filled.php

Physical Properties	Metric	English	Comments
Density	4.70 g/cc	0.170 lb/in ³	ISO 1183
Water Absorption	0.30 - 0.60 %	0.30 - 0.60 %	ISO 62
Water Absorption at Saturation	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa	15200 psi	ISO 2039-1
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527
Elongation at Break	23 %	23 %	ISO 527
Tensile Modulus	1.90 GPa	276 ksi	ISO 527
Flexural Strength	37.0 MPa	5370 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	2.70 J/cm ²	12.8 ft-lb/in ²	ISO 179/1eU
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	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	180 °C	356 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa	215 °C	419 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	IEC 93

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