

Nilit FRIANYL A63 BR80 Nylon 6.6 for injection molding, 80% 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-A63-BR80-Nylon-66-for-injection-molding-80-bronze-filled.php

Physical Properties	Metric	English	Comments
Density	3.80 g/cc	0.137 lb/in ³	ISO 1183
Water Absorption	0.30 - 0.80 %	0.30 - 0.80 %	ISO 62
Water Absorption at Saturation	1.0 - 2.0 %	1.0 - 2.0 %	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	145 MPa	21000 psi	ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
Elongation at Break	32 %	32 %	ISO 527
Tensile Modulus	2.50 GPa	363 ksi	ISO 527
Flexural Strength	93.0 MPa	13500 psi	ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	2.40 J/cm ²	11.4 ft-lb/in ²	ISO 179/1eU
	1.90 J/cm ²	9.04 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	0.300 J/cm ²	1.43 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

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