

Nilit FRIANYL A63 H-SG50 Nylon 6.6 for injection molding, 50% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Nylon 6.6 for injection molding, heat stabilized (dark natural color). 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-H-SG50-Nylon-66-for-injection-molding-50-mineral-filled.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Water Absorption	0.70 - 1.7 %	0.70 - 1.7 %	ISO 62
Water Absorption at Saturation	3.0 - 5.0 %	3.0 - 5.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	5.00 GPa	725 ksi	ISO 527
Flexural Modulus	4.30 GPa	624 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	2.70 J/cm ² @Temperature -40.0 °C	12.8 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	DIN 53453
	0.400 J/cm ² @Temperature -40.0 °C	1.90 ft-lb/in ² @Temperature -40.0 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	130 °C	266 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa	200 °C	392 °F	

<small>(56 psi)</small> Thermal Properties	Metric	English	ISO 75 Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ISO 75

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	550 V	550 V	CTI 100; IEC 112

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