

Nilit FRIANYL A63 AL40 Nylon 6.6 for injection molding, 40% aluminum 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-AL40-Nylon-66-for-injection-molding-40-aluminum-filled.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.4 %	1.4 - 2.4 %	ISO 62
Water Absorption at Saturation	5.5 - 6.5 %	5.5 - 6.5 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0070 - 0.015 cm/cm	0.0070 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	163 MPa	23600 psi	ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Tensile Modulus	4.90 GPa	711 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	4.10 GPa	595 ksi	ISO 178
Charpy Impact Unnotched	1.60 J/cm ²	7.61 ft-lb/in ²	DIN 53453
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	1.60 J/cm ² @Temperature -40.0 °C	7.61 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA
	0.550 J/cm ²	2.62 ft-lb/in ²	DIN 53453
	0.350 J/cm ² @Temperature -30.0 °C	1.67 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric N/cm^2	English lb/in^2	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	135 °C	275 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75

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