

Nilit FRIANYL A63 KV50 Nylon 6.6 for injection molding, 50% glass ball reinforced

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-KV50-Nylon-66-for-injection-molding-50-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 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	0.0080 - 0.017 cm/cm	0.0080 - 0.017 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	205 MPa	29700 psi	ISO 2039-1
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	5.30 GPa	769 ksi	ISO 178
Charpy Impact Unnotched	2.30 J/cm ²	10.9 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	125 °C Metric	257 °F English	Continuous; FRISETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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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