

Nilit FRIANYL A63 KV40 Nylon 6.6 for injection molding, 40% 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-KV40-Nylon-66-for-injection-molding-40-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	1.2 - 1.6 %	1.2 - 1.6 %	ISO 62
Water Absorption at Saturation	4.0 - 5.0 %	4.0 - 5.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0090 - 0.018 cm/cm	0.0090 - 0.018 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	182 MPa	26400 psi	ISO 2039-1
Tensile Strength at Break	92.0 MPa	13300 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	5.00 GPa	725 ksi	ISO 527
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	4.70 GPa	682 ksi	ISO 178
Charpy Impact Unnotched	2.20 J/cm ²	10.5 ft-lb/in ²	DIN 53453
	2.00 J/cm ² @Temperature -40.0 °C	9.52 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	228.33	228.33	
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
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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