

Nilit FRIANYL B63 CV10 Nylon 6.6 for injection molding, 10% carbon fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Carbon Fiber Filled

Material Notes:

Nylon 6.6 for injection molding, good conductive and electrostatic properties. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-CV10-Nylon-66-for-injection-molding-10-carbon-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0060 - 0.016 cm/cm	0.0060 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	7.90 GPa	1150 ksi	ISO 527
Flexural Strength	160 MPa	23200 psi	ISO 178
Flexural Modulus	5.60 GPa	812 ksi	ISO 178
Charpy Impact Unnotched	3.20 J/cm ²	15.2 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	0.450 J/cm ²	2.14 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	105 °C	221 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa			ISO 75

(66 psi) Thermal Properties	240 °C Metric	464 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250

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