

Nilit FRIANYL A63 CV40 Nylon 6.6 for injection molding, 40% carbon fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% 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-A63-CV40-Nylon-66-for-injection-molding-40-carbon-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	1.3 - 2.0 %	1.3 - 2.0 %	ISO 62
Water Absorption at Saturation	5.0 - 7.0 %	5.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	30.0 GPa	4350 ksi	ISO 527
Flexural Strength	400 MPa	58000 psi	ISO 178
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	DIN 53453
	3.00 J/cm ² @Temperature -40.0 °C	14.3 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.700 J/cm ²	3.33 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	140 °C	284 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	75 ohm-cm	75 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250

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