

Nilit FRIANYL B63 CV30 Nylon 6.6 for injection molding, 30% carbon fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% 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-CV30-Nylon-66-for-injection-molding-30-carbon-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.4 %	1.5 - 2.4 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0040 - 0.012 cm/cm	0.0040 - 0.012 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	182 MPa	26400 psi	ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527
Charpy Impact Unnotched	2.30 J/cm ²	10.9 ft-lb/in ²	DIN 53453
	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179/1eU
	2.10 J/cm ² @Temperature -40.0 °C	9.99 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact Unnotched	4.30 J/cm ² @Temperature -30.0 °C	20.5 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	0.700 J/cm ²	3.33 ft-lb/in ²	DIN 53453
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ² @Temperature -40.0 °C	2.38 ft-lb/in ² @Temperature -40.0 °F	DIN 53453

Mechanical Properties	0.700 J/cm ² Metric	3.33 ft-lb/in ² English	Comments _A
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	125 °C	257 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	150 ohm-cm	150 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250

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