

Nilit FRIANYL B63 HS-GV30 Nylon 6 for injection molding, 30% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Nylon 6 for injection molding, high impact modified. 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-HS-GV30-Nylon-6-for-injection-molding-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.0 %	1.5 - 2.0 %	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	0.0090 - 0.016 cm/cm	0.0090 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	5.80 J/cm ² @Temperature -40.0 °C	27.6 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	DIN 53453
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	DIN 53453

Mechanical Properties	Metric	English	Comments
	@ Temperature -40.0 °C	@ Temperature -40.0 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	@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	110 °C	230 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	550 V	550 V	CTI 100; IEC 112

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