

Nilit FRIANYL B63 HS-SG-GV2010 Nylon 6 for injection molding, 20% mineral filled, 10% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-SG-GV2010-Nylon-6-for-injection-molding-20-mineral-filled-10-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	1.0 - 2.0 %	1.0 - 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 - 0.015 cm/cm	0.0090 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa	19600 psi	ISO 2039-1
Tensile Strength at Break	86.0 MPa	12500 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Tensile Modulus	3.80 GPa	551 ksi	ISO 527
Flexural Strength	103 MPa	14900 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	DIN 53453
	5.30 J/cm ² @Temperature -40.0 °C	25.2 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	DIN 53453
	1.00 J/cm ² @Temperature -40.0 °C	4.76 ft-lb/in ² @Temperature -40.0 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	105 °C Metric	221 °F English	Continuous; FRISETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	400 V	400 V	CTI 100; IEC 112

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