

Nilit FRIANYL B63 SG-GV 2515 Nylon 6 for injection molding, 25% mineral filled and 15% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 6 for injection molding. 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-SG-GV-2515-Nylon-6-for-injection-molding-25-mineral-filled-and-15-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 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 - 0.019 cm/cm	0.0090 - 0.019 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	DIN 53453
	3.50 J/cm ² @Temperature -40.0 °C	16.7 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75

Thermal Properties	Metric	English	Comments
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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