

Nilit FRIANYL B63 L-HS-GV15 Nylon 6 for injection molding, 15% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Nylon 6 for injection molding, improved fluidity, 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-L-HS-GV15-Nylon-6-for-injection-molding-15-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	104 MPa	15100 psi	ISO 2039-1
Tensile Strength at Break	105 MPa	15200 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	5.30 GPa	769 ksi	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	DIN 53453
	4.80 J/cm ² @Temperature -40.0 °C	22.8 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	100 °C	212 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa			ISO 75

<small>(56 psi)</small> Thermal Properties	<small>200 °C</small> Metric	<small>392 °F</small> English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °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	550 V	550 V	CTI 100; IEC 112

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