

## Nilit FRIANYL B63 W-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, heat stabilized. 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-W-GV15-Nylon-6-for-injection-molding-15-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-W-GV15-Nylon-6-for-injection-molding-15-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0070 - 0.014 cm/cm	0.0070 - 0.014 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	158 MPa	22900 psi	ISO 2039-1
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	5.80 GPa	841 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Charpy Impact Unnotched	3.10 J/cm <sup>2</sup>	14.8 ft-lb/in <sup>2</sup>	DIN 53453
	3.00 J/cm <sup>2</sup> @Temperature -40.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DIN 53453
	0.400 J/cm <sup>2</sup> @Temperature -40.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	228 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Flammability, UL94	HB	HB	

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	575 V	575 V	CTI 100; IEC 112

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