

## Nilit FRIANYL B63 FK 2010 Nylon 6 for injection molding, 20% glass fiber and 10% glass ball 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-FK-2010-Nylon-6-for-injection-molding-20-glass-fiber-and-10-glass-ball-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-FK-2010-Nylon-6-for-injection-molding-20-glass-fiber-and-10-glass-ball-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 2.4 %	1.5 - 2.4 %	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	0.0060 - 0.014 cm/cm	0.0060 - 0.014 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa	18400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	8.40 GPa	1220 ksi	ISO 527
Flexural Modulus	5.90 GPa	856 ksi	ISO 178
Charpy Impact Unnotched	3.70 J/cm <sup>2</sup>	17.6 ft-lb/in <sup>2</sup>	DIN 53453
	2.80 J/cm <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	DIN 53453
	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75

Thermal Properties <small>ure at 1.8 MPa (264 psi)</small>	Metric	English	Comments
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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

## Contact Songhan Plastic Technology Co.,Ltd.

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