

## Nilit FRIANYL B63 MG30 Nylon 6 for injection molding, 30% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Mineral Filled

### 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-MG30-Nylon-6-for-injection-molding-30-mineral-filled.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-MG30-Nylon-6-for-injection-molding-30-mineral-filled.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 3.0 %	1.5 - 3.0 %	ISO 62
Water Absorption at Saturation	6.5 - 7.5 %	6.5 - 7.5 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	148 MPa	21500 psi	ISO 2039-1
Tensile Strength at Break	76.0 MPa	11000 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	Flexural; ISO 178
	4.0 %	4.0 %	ISO 527
Tensile Modulus	5.90 GPa	856 ksi	ISO 527
Flexural Strength	67.0 MPa	9720 psi	ISO 178
Charpy Impact Unnotched	3.30 J/cm <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	DIN 53453
	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	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)	195 °C	383 °F	ISO 75
Deflection Temperature at 1.8 MPa	130 °C	266 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ISO 75 Comments
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	450 V	450 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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