

## Nilit FRIANYL A63 FK 2010 Nylon 6.6 for injection molding, 20% glass fiber and 10% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Nylon 6.6 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-A63-FK-2010-Nylon-66-for-injection-molding-20-glass-fiber-and-10-glass-ball-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-FK-2010-Nylon-66-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	5.0 - 7.0 %	5.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.013 cm/cm	0.0050 - 0.013 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	173 MPa	25100 psi	ISO 2039-1
Tensile Strength at Break	155 MPa	22500 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ISO 527
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	DIN 53453
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179/1eU
	2.40 J/cm <sup>2</sup> @Temperature -40.0 °C	11.4 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact Unnotched	4.40 J/cm <sup>2</sup> @Temperature -30.0 °C	20.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	DIN 53453
Charpy Impact, Notched	0.670 J/cm <sup>2</sup>	3.19 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.580 J/cm <sup>2</sup>	2.76 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eA Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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

## Contact Songhan Plastic Technology Co.,Ltd.

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