

## Nilit FRIANYL A63 HH-FK 1020 Nylon 6.6 for injection molding, 10% glass fiber and 20% 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-HH-FK-1020-Nylon-66-for-injection-molding-10-glass-fiber-and-20-glass-ball-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-HH-FK-1020-Nylon-66-for-injection-molding-10-glass-fiber-and-20-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 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	167 MPa	24200 psi	ISO 2039-1
Tensile Strength at Break	118 MPa	17100 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	6.40 GPa	928 ksi	ISO 527
Flexural Strength	111 MPa	16100 psi	ISO 178
Flexural Modulus	5.10 GPa	740 ksi	ISO 178
Charpy Impact Unnotched	3.40 J/cm <sup>2</sup>	16.2 ft-lb/in <sup>2</sup>	ISO 179/1eU
	2.90 J/cm <sup>2</sup>	13.8 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.390 J/cm <sup>2</sup>	1.86 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.350 J/cm <sup>2</sup>	1.67 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	130 °C Metric	266 °F English	Continuous; FRISETTA Test Method Comments
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

Electrical Properties	Metric	English	Comments
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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China