

## Nilit FRIANYL B63 CV20 Nylon 6.6 for injection molding, 20% carbon fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Carbon Fiber Filled

### Material Notes:

Nylon 6.6 for injection molding, good conductive and electrostatic properties. 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-CV20-Nylon-66-for-injection-molding-20-carbon-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-B63-CV20-Nylon-66-for-injection-molding-20-carbon-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	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
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	180 MPa	26100 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	14.0 GPa	2030 ksi	ISO 527
Charpy Impact Unnotched	2.60 J/cm <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	DIN 53453
	4.40 J/cm <sup>2</sup>	20.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
	2.50 J/cm <sup>2</sup> @Temperature -40.0 °C	11.9 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	DIN 53453
	0.500 J/cm <sup>2</sup> @Temperature -40.0 °C	2.38 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

Thermal Properties <small>temperature, Air</small>	Metric	English	Comments <small>; FRISETTA Test Method</small>
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1300 ohm-cm	1300 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250

## Contact Songhan Plastic Technology Co.,Ltd.

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