

## Nilit FRIANYL A63 CV10 Nylon 6.6 for injection molding, 10% carbon fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% 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-A63-CV10-Nylon-66-for-injection-molding-10-carbon-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-CV10-Nylon-66-for-injection-molding-10-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	1.8 - 2.4 %	1.8 - 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	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	250 MPa	36300 psi	ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Charpy Impact Unnotched	2.60 J/cm <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	DIN 53453
	2.20 J/cm <sup>2</sup> @Temperature -40.0 °C	10.5 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 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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