

## Nilit FRIANYL C73 S10 Nylon 6.6/6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

### Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity, impact modified. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-FRIANYL-C73-S10-Nylon-666-for-injection-molding.php](http://www.lookpolymers.com/polymer_Nilit-FRIANYL-C73-S10-Nylon-666-for-injection-molding.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.3 - 2.3 %	1.3 - 2.3 %	ISO 62
Water Absorption at Saturation	5.0 - 6.0 %	5.0 - 6.0 %	ISO 62
Viscosity Measurement	155	155	Viscosity index; ISO 307
Linear Mold Shrinkage	0.011 - 0.023 cm/cm	0.011 - 0.023 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	35.0 MPa	5080 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	DIN 53453
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	DIN 53453
	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	90.0 °C	194 °F	Continuous; FRISSETTA Test Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	328 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75

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	500 V	500 V	CTI 100; IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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