

Nilit FRIANYL C73 T 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, heat stabilized. 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-T-Nylon-666-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	5.5 - 6.5 %	5.5 - 6.5 %	ISO 62
Viscosity Measurement	155	155	Viscosity index; ISO 307
Linear Mold Shrinkage	0.011 - 0.021 cm/cm	0.011 - 0.021 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.60 GPa	377 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	0.600 J/cm ²	2.86 ft-lb/in ²	DIN 53453

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
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)			
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	CTI 100; IEC 112
	600 V	600 V	CTI-M 100; IEC 112

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