

Nilit FRIANYL C73 TFGV1530 Nylon 6.6/6 for injection molding, 15% PTFE lubricated, 30% glass fiber reinforced

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

Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity. 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-TFGV1530-Nylon-666-for-injection-molding-15-PTFE-lubricated-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	0.50 - 1.5 %	0.50 - 1.5 %	ISO 62
Water Absorption at Saturation	3.5 - 4.5 %	3.5 - 4.5 %	ISO 62
Viscosity Measurement	155	155	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.013 cm/cm	0.0050 - 0.013 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	169 MPa	24500 psi	ISO 2039-1
Tensile Strength at Break	170 MPa	24700 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	10.44 GPa	1514 ksi	ISO 527
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Charpy Impact Unnotched	4.10 J/cm ²	19.5 ft-lb/in ²	DIN 53453
	3.70 J/cm ²	17.6 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	210 °C Metric	410 °F English	ISO 75 Comments
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	550 V	550 V	CTI 100; IEC 112

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