

Nilit FRIANYL C73 HS-GV30 Nylon 6.6/6 for injection molding, 30% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity, high 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-HS-GV30-Nylon-666-for-injection-molding-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 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 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	7.30 GPa	1060 ksi	ISO 527
Flexural Strength	140 MPa	20300 psi	ISO 178
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	DIN 53453
	3.90 J/cm ² @Temperature -40.0 °C	18.6 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	105 °C	221 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa			ISO 75

(66 psi) Thermal Properties	220 °C Metric	428 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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	550 V	550 V	CTI 100; IEC 112

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