

Nilit FRIANYL C73 H-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, 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-H-GV30-Nylon-666-for-injection-molding-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	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	0.0040 - 0.012 cm/cm	0.0040 - 0.012 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	160 MPa	23200 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527
Flexural Strength	220 MPa	31900 psi	ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	DIN 53453
	2.40 J/cm ² @Temperature -40.0 °C	11.4 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa			ISO 75

(66 psi) Thermal Properties	215 °C Metric	419 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °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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