Nilit FRIANYL C73 GV40 Nylon 6.6/6 for injection molding, 40% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

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-GV40-Nylon-666-for-injection-molding-40-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in³	ISO 1183
Water Absorption	0.70 - 1.7 %	0.70 - 1.7 %	ISO 62
Water Absorption at Saturation	4.0 - 5.0 %	4.0 - 5.0 %	ISO 62
Viscosity Measurement	155	155	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0030 - 0.0090 cm/cm	0.0030 - 0.0090 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	185 MPa	26800 psi	ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	ISO 527
Elongation at Break	4.5 %	4.5 %	ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527
Flexural Strength	250 MPa	36300 psi	ISO 178
Charpy Impact Unnotched	4.00 J/cm²	19.0 ft-lb/in²	DIN 53453
	3.20 J/cm² @Temperature -40.0 °C	15.2 ft-lb/in² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	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; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO 75

Thermal Properties	Metric	English	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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