Nilit FRIANYL A63 HS-GV40 Nylon 6.6 for injection molding, 40% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Nylon 6.6 for injection molding, high impact resistance.Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:
http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-HS-GV40-Nylon-66-for-injection-molding-40-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0060 - 0.013 cm/cm	0.0060 - 0.013 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa	19600 psi	ISO 2039-1
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527
Flexural Strength	150 MPa	21800 psi	ISO 178
Charpy Impact Unnotched	4.50 J/cm²	21.4 ft-lb/in²	DIN 53453
	NB	NB	ISO 179/1eU
	4.00 J/cm² @Temperature -40.0 °C	19.0 ft-lb/in² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.80 J/cm²	8.57 ft-lb/in²	DIN 53453
	2.20 J/cm²	10.5 ft-lb/in²	ISO 179/1eA
	1.20 J/cm² @Temperature -40.0 °C	5.71 ft-lb/in² @Temperature -40.0 °F	DIN 53453
	1.50 J/cm² @Temperature -30.0 °C	7.14 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	125 °C	257 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °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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