Nilit FRIANYL A63 HH-GV10 Nylon 6.6 for injection molding, 10% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Nylon 6.6 for injection molding, heat and hydrolysis 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-A63-HH-GV10-Nylon-66-for-injection-molding-10-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183
Water Absorption	1.5 - 2.2 %	1.5 - 2.2 %	ISO 62
Water Absorption at Saturation	6.0 - 8.0 %	6.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.014 cm/cm	0.0050 - 0.014 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
Elongation at Break	6.0 %	6.0 %	ISO 527
Tensile Modulus	5.00 GPa	725 ksi	ISO 527
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	4.80 GPa	696 ksi	ISO 178
Charpy Impact Unnotched	2.80 J/cm²	13.3 ft-lb/in²	DIN 53453
	2.40 J/cm² @Temperature -40.0 °C	11.4 ft-lb/in² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °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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