

Nilit FRIANYL A63 HS-GV20 Nylon 6.6 for injection molding, 20% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Nylon 6.6 for injection molding, 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-A63-HS-GV20-Nylon-66-for-injection-molding-20-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0080 - 0.016 cm/cm	0.0080 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	118 MPa	17100 psi	ISO 2039-1
Tensile Strength at Break	109 MPa	15800 psi	ISO 527
Elongation at Break	3.3 %	3.3 %	ISO 527
Tensile Modulus	6.40 GPa	928 ksi	ISO 527
Flexural Strength	123 MPa	17800 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	3.60 J/cm ²	17.1 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	1.15 J/cm ²	5.47 ft-lb/in ²	DIN 53453
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	0.750 J/cm ²	3.57 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA 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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