

Nilit FRIANYL A63 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 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-GV20-Nylon-66-for-injection-molding-20-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	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	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	165 MPa	23900 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	6.40 GPa	928 ksi	ISO 178
Charpy Impact Unnotched	3.30 J/cm ²	15.7 ft-lb/in ²	DIN 53453
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	2.80 J/cm ² @Temperature -40.0 °C	13.3 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact Unnotched	3.80 J/cm ² @Temperature -30.0 °C	18.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179/1eA
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	DIN 53453
	0.450 J/cm ²	2.14 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	120 °C	248 °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)	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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