

Nilit FRIANYL B63 SG-GV20 Nylon 6 for injection molding, 20% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Nylon 6 for injection molding, light 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-B63-SG-GV20-Nylon-6-for-injection-molding-20-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Water Absorption	1.7 - 2.7 %	1.7 - 2.7 %	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	0.0080 - 0.016 cm/cm	0.0080 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength at Break	115 MPa	16700 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Flexural Strength	160 MPa	23200 psi	ISO 178
Flexural Modulus	5.40 GPa	783 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	2.50 J/cm ²	11.9 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC

Maximum Service Temperature, Air Thermal Properties	100 °C Metric	212 °F English	Continuous; FRISSETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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	575 V	575 V	CTI 100; IEC 112

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