

Nilit FRIANYL A63 W-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, heat 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-W-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	1.4 - 2.4 %	1.4 - 2.4 %	ISO 62
Water Absorption at Saturation	5.0 - 7.0 %	5.0 - 7.0 %	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	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	144 MPa	20900 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527
Flexural Strength	160 MPa	23200 psi	ISO 178
Flexural Modulus	5.30 GPa	769 ksi	ISO 178
Charpy Impact Unnotched	3.40 J/cm ²	16.2 ft-lb/in ²	DIN 53453
	2.90 J/cm ² @Temperature -40.0 °C	13.8 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.750 J/cm ²	3.57 ft-lb/in ²	DIN 53453
	0.650 J/cm ² @Temperature -40.0 °C	3.09 ft-lb/in ² @Temperature -40.0 °F	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; FRISSETTA Test Method

Thermal Properties	Metric	English	Comments
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
Flammability, UL94	HB	HB	

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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