

Nilit FRIANYL A63 W-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. 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-GV10-Nylon-66-for-injection-molding-10-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 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	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	105 MPa	15200 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	4.70 GPa	682 ksi	ISO 527
Flexural Modulus	4.10 GPa	595 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
	2.50 J/cm ² @Temperature -40.0 °C	11.9 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact Unnotched	3.20 J/cm ² @Temperature -30.0 °C	15.2 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	0.600 J/cm ²	2.86 ft-lb/in ²	DIN 53453
	0.450 J/cm ² @Temperature -30.0 °C	2.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °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
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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