

Nilit FRIANYL B63 FK 1020 Nylon 6 for injection molding, 10% glass fiber and 20% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 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-B63-FK-1020-Nylon-6-for-injection-molding-10-glass-fiber-and-20-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.4 %	1.5 - 2.4 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0060 - 0.014 cm/cm	0.0060 - 0.014 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	6.10 GPa	885 ksi	ISO 527
Flexural Strength	165 MPa	23900 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eU
	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	2.70 J/cm ² @Temperature -40.0 °C	12.8 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	DIN 53453
	0.400 J/cm ² @Temperature -40.0 °C	1.90 ft-lb/in ² @Temperature -40.0 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISETTA Test Method
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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