

Nilit FRIANYL A63 FK 1020 Nylon 6.6 for injection molding, 10% glass fiber and 20% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-FK-1020-Nylon-66-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	5.0 - 7.0 %	5.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	5.70 GPa	827 ksi	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	5.10 GPa	740 ksi	ISO 178
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	DIN 53453
	3.70 J/cm ²	17.6 ft-lb/in ²	ISO 179/1eU
	2.30 J/cm ² @Temperature -40.0 °C	10.9 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

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC

Thermal Properties	Metric	English	Comments
Temperature, Air	122.32	249.18	FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	550 V	550 V	CTI 100; IEC 112

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