Nilit FRIANYL A63 KV20 Nylon 6.6 for injection molding, 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-KV20-Nylon-66-for-injection-molding-20-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in³	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	0.012 - 0.020 cm/cm	0.012 - 0.020 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039-1
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Elongation at Break	6.0 %	6.0 %	ISO 527
Tensile Modulus	3.70 GPa	537 ksi	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
Charpy Impact Unnotched	2.40 J/cm²	11.4 ft-lb/in²	DIN 53453
	3.00 J/cm²	14.3 ft-lb/in²	ISO 179/1eU
	2.00 J/cm² @Temperature -40.0 °C	9.52 ft-lb/in² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	DIN 53453
	0.500 J/cm²	2.38 ft-lb/in²	ISO 179/1eA

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

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °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)	200 °C	392 °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	550 V	550 V	CTI 100; IEC 112

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