Nilit FRIANYL B63 HS-KV20 Nylon 6 for injection molding, 20% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 6 for injection molding, high impact modified.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-HS-KV20-Nylon-6-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	1.5 - 2.0 %	1.5 - 2.0 %	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	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	64.0 MPa	9280 psi	ISO 527
Elongation at Break	16 %	16 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.60 GPa	377 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	DIN 53453
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.40 J/cm²	6.66 ft-lb/in²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °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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