Nilit FRIANYL A63 N-S20 Nylon 6.6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Nylon 6.6 for injection molding, low viscosity, 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-A63-N-S20-Nylon-66-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in³	ISO 1183
Water Absorption	1.7 - 2.7 %	1.7 - 2.7 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Viscosity Measurement	140	140	Viscosity index; ISO 307
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	102 MPa	14800 psi	ISO 2039-1
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527
Elongation at Break	29 %	29 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	58.0 MPa	8410 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	DIN 53453
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	1.80 J/cm²	8.57 ft-lb/in²	ISO 179/1eA
	1.80 J/cm²	8.57 ft-lb/in²	DIN 53453
	1.30 J/cm² @Temperature -40.0 °C	6.19 ft-lb/in² @Temperature -40.0 °F	DIN 53453

Mechanical Properties Thermal Properties	Metric Metric	English English	Comments Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	90.0 °C	194 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °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	600 V	600 V	CTI 100; IEC 112

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