Nilit FRIANYL B63 D-S10 Nylon 6., std. viscosity for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Nylon 6., std. viscosity for injection molding, permanently flexible, increased dry impact resistance (for dowels).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-D-S10-Nylon-6-std-viscosity-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in³	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.018 - 0.025 cm/cm	0.018 - 0.025 in/in	FRISETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	122 MPa	17700 psi	ISO 2039-1
Tensile Strength at Break	63.0 MPa	9140 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Tensile Modulus	2.40 GPa	348 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.10 GPa	305 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	1.20 J/cm²	5.71 ft-lb/in²	DIN 53453
	1.30 J/cm²	6.19 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	80.0 °C	176 °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)	65.0 °C	149 °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
	600 V	600 V	CTI-M 100; IEC 112

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