Nilit FRIANYL B63 D-S 5 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, dry impact resistant for high quality 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-S-5-Nylon-6-std-viscosity-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in³	ISO 1183
Water Absorption	1.8 - 2.8 %	1.8 - 2.8 %	ISO 62
Water Absorption at Saturation	7.5 - 8.5 %	7.5 - 8.5 %	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	125 MPa	18100 psi	ISO 2039-1
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.30 GPa	334 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	1.00 J/cm²	4.76 ft-lb/in²	DIN 53453

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

Thermal Properties	Metric	English	Comments
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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