

Nilit FRIANYL A63 KF30 M2 Nylon 6.6 for injection molding, 30% short glass fiber reinforced and 2% molybdenum disulphide lubricated

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-KF30-M2-Nylon-66-for-injection-molding-30-short-glass-fiber-reinforced-and-2-molybdenum-disulphide-lubricated.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.4 %	1.4 - 2.4 %	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	0.0050 - 0.016 cm/cm	0.0050 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	176 MPa	25500 psi	ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	7.90 GPa	1150 ksi	ISO 178
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	DIN 53453
	1.50 J/cm ² @Temperature -40.0 °C	7.14 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	120 °C	248 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °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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