Nilit FRIANYL C73 M-HS3005 Nylon 6.6/6 for injection molding, 30% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 30% Glass Fiber Reinforced

Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity, 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-C73-M-HS3005-Nylon-666-for-injection-molding-30-mineral-filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in³	ISO 1183
Water Absorption	1.0 - 2.0 %	1.0 - 2.0 %	ISO 62
Water Absorption at Saturation	4.5 - 5.5 %	4.5 - 5.5 %	ISO 62
Viscosity Measurement	155	155	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	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Tensile Modulus	4.00 GPa	580 ksi	ISO 527
Flexural Strength	56.0 MPa	8120 psi	ISO 178
Flexural Modulus	3.70 GPa	537 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	0.900 J/cm²	4.28 ft-lb/in²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	105 °C	221 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa			ISO 75

Thermal Properties	Metric	English	Comments
(66 psi)	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °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	575 V	575 V	CTI 100; IEC 112

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