

Nilit FRIANYL C73 MG40 Nylon 6.6/6 for injection molding, 40% mineral filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

Material Notes:

Nylon 6.6/6 for injection molding, medium viscosity. 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-MG40-Nylon-666-for-injection-molding-40-mineral-filled.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.0070 - 0.017 %	0.0070 - 0.017 %	ISO 62
Water Absorption at Saturation	4.0 - 5.0 %	4.0 - 5.0 %	ISO 62
Viscosity Measurement	155	155	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0070 - 0.018 cm/cm	0.0070 - 0.018 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
Elongation at Break	16 %	16 %	ISO 527
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Flexural Strength	45.0 MPa	6530 psi	ISO 178
Charpy Impact Unnotched	NB	NB	DIN 53453
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	242 °C	468 °F	ISO 3146 DSC
Maximum Service Temperature, Air	110 °C	230 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °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	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	CTI 100; IEC 112

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