

Nilit FRIANYL A63 V0 G5 Nylon 6.6 for injection molding, 25% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Nylon 6.6 for injection molding, flame retardant, free of halogen and phosphorus. 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-V0-G5-Nylon-66-for-injection-molding-25-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	7.0 - 9.0 %	7.0 - 9.0 %	ISO 62
Linear Mold Shrinkage	0.0070 - 0.014 cm/cm	0.0070 - 0.014 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	ISO 2039-1
Tensile Strength at Break	128 MPa	18600 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	11.3 GPa	1640 ksi	ISO 527
Charpy Impact Unnotched	2.90 J/cm ²	13.8 ft-lb/in ²	ISO 179/1eU
	2.40 J/cm ²	11.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	140 °C	284 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa	250 °C	482 °F	ISO 75

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	

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	400 V	400 V	CTI 100; IEC 112

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