

Nilit FRIANYL A63 W-GV25 Nylon 6.6, std. viscosity for injection molding, 25% glass fiber reinforced

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

Material Notes:

Nylon 6.6, std. viscosity for injection molding, heat stabilized. 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-W-GV25-Nylon-66-std-viscosity-for-injection-molding-25-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.4 %	1.4 - 2.4 %	ISO 62
Water Absorption at Saturation	5.0 - 7.0 %	5.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0080 - 0.016 cm/cm	0.0080 - 0.016 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	150 MPa	21800 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.800 J/cm ²	3.81 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

Thermal Properties <small>Deflection Temperature at 0.46 MPa (66 psi)</small>	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	HB	HB	

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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