

Nilit FRIANYL A63 KV35 Nylon 6.6 for injection molding, 35% glass ball reinforced

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-KV35-Nylon-66-for-injection-molding-35-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.5 %	1.5 - 2.5 %	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	0.0040 - 0.014 cm/cm	0.0040 - 0.014 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	178 MPa	25800 psi	ISO 2039-1
Tensile Strength at Break	91.0 MPa	13200 psi	ISO 527
Elongation at Break	4.5 %	4.5 %	ISO 527
Tensile Modulus	4.80 GPa	696 ksi	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	4.60 GPa	667 ksi	ISO 178
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	1.70 J/cm ²	8.09 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	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 Thermal Properties	115 °C Metric	239 °F English	Continuous; FRISETTA Test Method Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75

Electrical Properties	Metric	English	Comments
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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