

Nilit FRIANYL B63 KV25 Nylon 6 for injection molding, 25% glass ball reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 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-B63-KV25-Nylon-6-for-injection-molding-25-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	1.7 - 2.7 %	1.7 - 2.7 %	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	0.0090 - 0.018 cm/cm	0.0090 - 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	80.0 MPa	11600 psi	ISO 527
Elongation at Break	10 %	10 %	ISO 527
Tensile Modulus	3.80 GPa	551 ksi	ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	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
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	105 °C	221 °F	Continuous; FRISSETTA Test Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	170 °C	338 °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	550 V	550 V	CTI 100; IEC 112

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