

Nilit FRIANYL A63 CV-CM 0830 9005/Z Powder-coatable nylon 6.6 for injection molding, 8% carbon fiber reinforced, 30% ceramic filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Powder-coatable 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-CV-CM-0830-9005Z-Powder-coatable-nylon-66-for-injection-molding-8-carbon-fiber-reinforced-30-ceramic-filled.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.1 %	1.4 - 2.1 %	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	0.0080 - 0.021 cm/cm	0.0080 - 0.021 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	185 MPa	26800 psi	ISO 2039-1
Tensile Strength at Break	76.0 MPa	11000 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	ISO 527
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Charpy Impact Unnotched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eU
	1.50 J/cm ²	7.14 ft-lb/in ²	DIN 53453
	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact Unnotched	1.40 J/cm ² @Temperature -40.0 °C	6.66 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.310 J/cm ²	7.010 lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	150 °C	302 °F	Continuous; FRISETTA Test Method

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