

Nilit FRIANYL A63 AV15 Nylon 6.6 for injection molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

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-AV15-Nylon-66-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	1.5 - 2.2 %	1.5 - 2.2 %	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	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	152 MPa	22000 psi	ISO 2039-1
Tensile Strength at Break	72.0 MPa	10400 psi	ISO 527
Elongation at Break	4.2 %	4.2 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Charpy Impact Unnotched	1.60 J/cm ²	7.61 ft-lb/in ²	DIN 53453
	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179/1eU
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA
	0.260 J/cm ²	1.24 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	130 °C	266 °F	Continuous; FRISSETTA Test Method

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