

Nilit RECONYL A Recycled nylon 6.6 for injection molding

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Recycled nylon 6.6 for injection molding (available only in black).Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-RECONYL-A-Recycled-nylon-66-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	2.0 - 3.0 %	2.0 - 3.0 %	ISO 62
Water Absorption at Saturation	7.0 - 8.0 %	7.0 - 8.0 %	ISO 62
Linear Mold Shrinkage	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa	19600 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.60 GPa	377 ksi	ISO 178
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	4.00 J/cm ² @Temperature -40.0 °C	19.0 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	DIN 53453
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	90.0 °C	194 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75

Thermal Properties	Metric	English	Comments
Thermal stability at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 78

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