

Nilit RECONYL A H 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, heat stabilized (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-H-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	2.3 - 3.2 %	2.3 - 3.2 %	ISO 62
Water Absorption at Saturation	7.5 - 8.5 %	7.5 - 8.5 %	ISO 62
Linear Mold Shrinkage	0.014 - 0.024 cm/cm	0.014 - 0.024 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	ISO 2039-1
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	DIN 53453
	4.00 J/cm ² @Temperature -40.0 °C	19.0 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	DIN 53453

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
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75

Thermal Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China