

Nilit RECONYL B Recycled nylon 6 for injection molding

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Recycled nylon 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-B-Recycled-nylon-6-for-injection-molding.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	2.2 - 3.2 %	2.2 - 3.2 %	ISO 62
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	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	130 MPa	18900 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527
Elongation at Break	45 %	45 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	DIN 53453
	NB	NB	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous; FRISSETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75

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