

Nilit RECONYL A KV30 Recycled nylon 6.6 for injection molding, 30% glass ball reinforced

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

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-KV30-Recycled-nylon-66-for-injection-molding-30-glass-ball-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.4 %	1.4 - 2.4 %	ISO 62
Water Absorption at Saturation	5.5 - 6.5 %	5.5 - 6.5 %	ISO 62
Linear Mold Shrinkage	0.0090 - 0.015 cm/cm	0.0090 - 0.015 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Tensile Modulus	4.00 GPa	580 ksi	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.70 GPa	537 ksi	ISO 178
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	DIN 53453
	1.30 J/cm ² @Temperature -40.0 °C	6.19 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)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75

Thermal Properties	Metric	English	Comments
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