

Nilit RECONYL B GV30 Recycled nylon 6 for injection molding, 30% glass fiber reinforced

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

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-GV30-Recycled-nylon-6-for-injection-molding-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	1.3 - 2.3 %	1.3 - 2.3 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Linear Mold Shrinkage	0.0060 - 0.017 cm/cm	0.0060 - 0.017 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	8.30 GPa	1200 ksi	ISO 527
Flexural Modulus	7.80 GPa	1130 ksi	ISO 178
Charpy Impact Unnotched	2.70 J/cm ²	12.8 ft-lb/in ²	DIN 53453
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	2.30 J/cm ²	10.9 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	DIN 53453
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 3146 DSC
Maximum Service Temperature, Air	105 °C	221 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75

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