

Ravago Manufacturing Americas Hylon® N1000NL2 Nylon 6/6 (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1000NL2-Nylon-66-Cond.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ASTM D792
Water Absorption	1.1 %	1.1 %	24 hrs, DAM; ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	0.125 in, DAM; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	64	64	ASTM D785
Tensile Strength at Break	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	62.1 MPa	9000 psi	ASTM D790
Flexural Modulus	1.65 GPa	240 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	7.0 @Frequency 100 Hz	7.0 @Frequency 100 Hz	ASTM D150
Dielectric Strength	21.5 kV/mm	545 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 560 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	73.9 °C	165 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.20 %	0.20 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Screw Speed	40 - 140 rpm	40 - 140 rpm	

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