

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

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-DAM.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	87	87	ASTM D785
Tensile Strength at Break	93.8 MPa	13600 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	82.8 µm/m-°C	46.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	246 °C	475 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	215 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	21.9 kV/mm	555 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 560 °F	
Mold Temperature	48.9 - 93.3 °C	120 - 200 °F	
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	

Descriptive Properties	Value	Comments
Holding Pressure	400 to 1400 psi	
Injection Rate	Fast	

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