

Ravago Manufacturing Americas Hylon® N1000EHL Nylon 6/6 (Cond) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

Material Notes:

Information provided by Ravago

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1000EHL-Nylon-66-Cond-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ASTM D792
Water Absorption	1.3 %	1.3 %	24 hrs, DAM; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	0.125 in, DAM; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	ASTM D785
Tensile Strength at Break	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	40.7 MPa	5900 psi	ASTM D790
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	Unannealed; ASTM D648
Flammability, UL94	V-2	V-2	0.0591 in, ALL
	V-2	V-2	0.118 in, ALL
	V-2	V-2	0.0280 in, ALL

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	6.0	6.0	ASTM D150

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Dielectric Strength	21.7 kV/mm	550 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	

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