

Ravago Manufacturing Americas Hylon® N2000HL Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N2000HL-Nylon-6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	1.6 %	1.6 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.79 GPa	405 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 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)	174 °C	345 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.3 °C	155 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0590 in, BK
	V-2	V-2	0.0590 in, NC

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	16.5 kV/mm	420 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 266 °C	460 - 510 °F	
Mold Temperature	48.9 - 82.2 °C	120 - 180 °F	
Drying Temperature	73.9 °C	165 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.18 %	0.18 %	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	40 - 120 rpm	40 - 120 rpm	

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

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