

Ravago Manufacturing Americas Hylon® N1000STHL Nylon 6/6 (DAM)

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-N1000STHL-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	0.80 %	0.80 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C	78.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	425 °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, NC

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	277 - 293 °C	530 - 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	0.18 %	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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