

Ravago Manufacturing Americas Hylon® N2000THL 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-N2000THL-Nylon-6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	1.5 %	1.5 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Yield	64.8 MPa	9400 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 µm/m-°C	55.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	335 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	27.6 kV/mm	700 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 271 °C	470 - 520 °F	

Processing Properties	Metric	English	Comments
	77.8 °C	160 °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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