

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

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-Cond.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ASTM D785
Tensile Strength at Break	34.5 MPa	5000 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	27.6 MPa	4000 psi	ASTM D790
Flexural Modulus	0.758 GPa	110 ksi	ASTM D790
Izod Impact, Notched	10.1 J/cm	19.0 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	0.0590 in, NC

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	5.5 @Frequency 100 Hz	5.5 @Frequency 100 Hz	ASTM D150

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 Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Comments
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	

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