

Ravago Manufacturing Americas Hylon® N1040MHL 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-N1040MHL-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	0.60 %	0.60 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	48.6 µm/m-°C	27.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	238 °C	460 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	380 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0590 in, BK
	HB	HB	0.0590 in, NC
	HB	HB	0.118 in, BK
	HB	HB	0.118 in, NC

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+14 ohm-cm Metric	1.00e+14 ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	ASTM D150
Dielectric Strength	18.9 kV/mm	480 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 299 °C	540 - 570 °F	
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	
Drying Temperature	73.9 °C	165 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.20 %	0.20 %	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	40 - 120 rpm	40 - 120 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	750 to 1400 psi	
Injection Rate	Fast	

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