

Ravago Manufacturing Americas Hylon® N1040ML Nylon 6/6 (DAM) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1040ML-Nylon-66-DAM-nbspdiscontinued-.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
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
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
Injection Rate	Fast	

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