

Ravago Manufacturing Americas Hylon® N1040ML Nylon 6/6 (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-Cond.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0591 in, BK
	HB	HB	0.0591 in, NC
	HB	HB	0.118 in, BK
	HB	HB	0.118 in, NC

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.0	6.0	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.9 kV/mm	530 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	

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