

Ravago Manufacturing Americas Hylon® N1000THLUV2 Polyamide 66 (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Heat Stabilized

Material Notes:

Available in North America Additive: Heat Stabilizer, Lubricant and UV Stabilizer Features: Lubricated, Heat Stabilized and Good

Toughness RoHS Compliant Auto Specifications: GM GMP.PA66.079 Color: Black Form: Pellets Processing Method: Injection Molding

Properties are for dry polymer unless noted. Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1000THLUV2-Polyamide-66-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.013 - 0.017 cm/cm	0.013 - 0.017 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	94	94	Conditioned; ASTM D785
	114	114	ASTM D785
Tensile Strength, Yield	46.2 MPa	6700 psi	Conditioned; ASTM D638
	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
	130 %	130 %	Conditioned; ASTM D638
Flexural Strength	34.5 MPa	5000 psi	Conditioned; ASTM D790
	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	0.896 GPa	130 ksi	Conditioned; ASTM D790
	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
	2.14 J/cm	4.00 ft-lb/in	Conditioned; ASTM D256

Thermal Properties	Metric	English	Comments
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CTE, linear, Parallel to Flow Thermal Properties	113 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	63.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	ASTM D696 Comments
Deflection Temperature at 0.46 MPa (66 psi)	229 °C	445 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	Conditioned
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	Conditioned; ASTM D257
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	5.8	5.8	Conditioned; ASTM D150
Dielectric Strength	21.3 kV/mm	540 kV/in	Method A (Short-time); ASTM D149

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	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	
Moisture Content	<= 0.18 %	<= 0.18 %	Suggested Maximum
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	40 - 120 rpm	40 - 120 rpm	

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