

Hylon® N1000STHL

Polyamide 66

Ravago Manufacturing Americas, LLC



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Technical Data

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Hylon PA66 (English) • Technical Datasheet		
UL Yellow Card ²	• E157012-224020		
Search for UL Yellow Card	• Ravago Manufacturing Americas, LLC • Hylon®		
Availability	• North America		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Heat Stabilized	• Lubricated	• Ultra High Toughness
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity				
--	1.08	--	(g/cm ³)	ASTM D792
--	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				
--	0.017 to 0.021 (1.7 to 2.1)	--	in/in (%)	ASTM D955
--	1.7 to 2.1	--	%	ISO 294-4
Water Absorption (24 hr)	0.090	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				
Yield, 73°F (23°C)	8100 (55.8)	5000 (34.5)	psi (MPa)	ASTM D638
Yield, 73°F (23°C)	7980 (55.0)	--	psi (MPa)	ISO 527-2
Tensile Elongation				
Break, 73°F (23°C)	55	200	%	ASTM D638
Break, 73°F (23°C)	40	--	%	ISO 527-2
Flexural Modulus				
73°F (23°C)	250000 (1720)	110000 (758)	psi (MPa)	ASTM D790
73°F (23°C)	270000 (1860)	--	psi (MPa)	ISO 178
Flexural Strength				
73°F (23°C)	9900 (68.3)	4000 (27.6)	psi (MPa)	ASTM D790
73°F (23°C)	10400 (72.0)	--	psi (MPa)	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				
73°F (23°C)	16 (850)	19 (1000)	ft·lb/in (J/m)	ASTM D256
73°F (23°C)	29 (60)	--	ft·lb/in ² (kJ/m ²)	ISO 180

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Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	107	82		ASTM D785
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	424 (218)	--	°F (°C)	ASTM D648
66 psi (0.45 MPa), Unannealed	397 (203)	--	°F (°C)	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	ASTM D648
264 psi (1.8 MPa), Unannealed	144 (62.0)	--	°F (°C)	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohm·cm	ASTM D257
Dielectric Constant (100 Hz)	3.20	5.50		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.0310 in (0.787 mm)	HB	--		
0.0590 in (1.50 mm), NC	--	HB		
Injection	Dry (English)	Dry (SI)		
Drying Temperature	165 °F	73.9 °C		
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr		
Suggested Max Moisture	0.18 %	0.18 %		
Processing (Melt) Temp	530 to 560 °F	277 to 293 °C		
Mold Temperature	120 to 200 °F	48.9 to 93.3 °C		
Back Pressure	20.0 to 60.0 psi	0.138 to 0.414 MPa		
Screw Speed	40 to 120 rpm	40 to 120 rpm		

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

Hylon® N1000STHL

Ravago Manufacturing Americas, LLC

Manchester, TN USA

Telephone: 800-459-7009

Web: <http://www.ravagomfg.com/>

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Distributor

Hylon® N1000STHL

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

Entec Polymers

Telephone: 800-375-5440

Web: <http://www.entecpolymers.com/>

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Entec Polymers

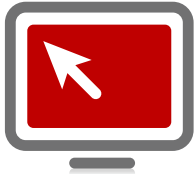
Telephone: 800-375-5440

Web: <http://www.entecpolymers.com/>

Availability: North America



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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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