

Hylon® N1033HL

Polyamide 66

Ravago Manufacturing Americas, LLC



ides.com/prospector

Technical Data

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Hylon PA66 (English) • Technical Datasheet
UL Yellow Card ²	• E157012-224016
Search for UL Yellow Card	• Ravago Manufacturing Americas, LLC • Hylon®
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 33% Filler by Weight
Additive	• Heat Stabilizer • Lubricant
Features	• Heat Stabilized • Lubricated
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity				
--	1.38	--	(g/cm ³)	ASTM D792
--	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				
--	0.0030 to 0.0050 (0.30 to 0.50)	--	in/in (%)	ASTM D955
--	0.30 to 0.50	--	%	ISO 294-4
Water Absorption (24 hr)	0.70	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				
Yield, 73°F (23°C)	28000 (193)	20000 (138)	psi (MPa)	ASTM D638
Yield, 73°F (23°C)	29400 (203)	--	psi (MPa)	ISO 527-2
Tensile Elongation				
Break, 73°F (23°C)	2.0	3.0	%	ASTM D638
Break, 73°F (23°C)	2.2	--	%	ISO 527-2
Flexural Modulus				
73°F (23°C)	1.35E+6 (9310)	900000 (6210)	psi (MPa)	ASTM D790
73°F (23°C)	1.38E+6 (9520)	--	psi (MPa)	ISO 178
Flexural Strength				
73°F (23°C)	39000 (269)	28000 (193)	psi (MPa)	ASTM D790
73°F (23°C)	39900 (275)	--	psi (MPa)	ISO 178

Hylon® N1033HL

Polyamide 66

Ravago Manufacturing Americas, LLC



ides.com/prospector

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				
73°F (23°C)	2.2 (120)	2.5 (130)	ft·lb/in (J/m)	ASTM D256
73°F (23°C)	5.2 (11)	--	ft·lb/in ² (kJ/m ²)	ISO 180
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	98	85		ASTM D785
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	495 (257)	--	°F (°C)	ASTM D648 ISO 75-2/B
264 psi (1.8 MPa), Unannealed	469 (243)	475 (246)	°F (°C)	ASTM D648
264 psi (1.8 MPa), Unannealed	471 (244)	--	°F (°C)	ISO 75-2/A
CLTE - Flow	0.000013 (0.000023)	--	in/in/°F (cm/cm/°C)	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohm·cm	ASTM D257
Dielectric Strength ⁴	520 (20)	--	V/mil (kV/mm)	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.0295 in (0.750 mm), NC	--	HB		
0.0590 in (1.50 mm)	HB	--		
0.0591 in (1.50 mm), BK	--	HB		
0.0591 in (1.50 mm), NC	--	HB		
0.118 in (3.00 mm), BK	--	HB		
0.118 in (3.00 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	0.20 %	0.20 %
Processing (Melt) Temp	540 to 570 °F	282 to 299 °C
Mold Temperature	150 to 210 °F	65.6 to 98.9 °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.

⁴ Method A (Short-Time)

Hylon® N1033HL

Polyamide 66

Ravago Manufacturing Americas, LLC

Where to Buy

Supplier

Hylon® N1033HL

Ravago Manufacturing Americas, LLC

Manchester, TN USA

Telephone: 800-459-7009

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

Hylon® N1033HL

Ravago Manufacturing Americas, LLC

Manchester, TN USA

Telephone: 800-459-7009

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

Distributor

Hylon® N1033HL

Amco Polymers LLC

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/>

Availability: North America

Hylon® N1033HL

Amco Polymers LLC

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

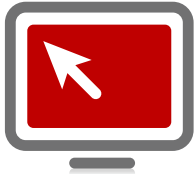
Telephone: 800-375-5440

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

Availability: North America



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



Prospector Plastics Database - www.ides.com/prospector

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

Power Searches

Property Search – select plastics by 500 key properties and design parameters.

Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



Material Data Management – www.ides.com/datasheets

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



Advertising – www.ides.com/advertise

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.



For more information, call: 800.788.4668 or 307.742.9227 ext. 220