

Technical Data

Product Description

This grade is available in black or colors only

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Hylon PA66 (English) • Technical Datasheet	
UL Yellow Card ²	• E157012-224026	
Search for UL Yellow Card	• Ravago Manufacturing Americas, LLC • Hylon®	
Availability	• North America	
Additive	• Heat Stabilizer	• Lubricant
Features	• Heat Stabilized	• Lubricated
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	• Colors Available
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity				
--	1.14	--	(g/cm ³)	ASTM D792
--	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				
--	0.014 to 0.018 (1.4 to 1.8)	--	in/in (%)	ASTM D955
--	1.4 to 1.9	--	%	ISO 294-4
Water Absorption (24 hr)	1.3	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				
Yield, 73°F (23°C)	12000 (82.7)	9500 (65.5)	psi (MPa)	ASTM D638
Yield, 73°F (23°C)	12200 (84.0)	--	psi (MPa)	ISO 527-2
Tensile Elongation				
Break, 73°F (23°C)	30	200	%	ASTM D638
Break, 73°F (23°C)	25	--	%	ISO 527-2
Flexural Modulus				
73°F (23°C)	430000 (2960)	190000 (1310)	psi (MPa)	ASTM D790
73°F (23°C)	413000 (2850)	--	psi (MPa)	ISO 178
Flexural Strength				
73°F (23°C)	16500 (114)	5900 (40.7)	psi (MPa)	ASTM D790
73°F (23°C)	17400 (120)	--	psi (MPa)	ISO 178

Hylon® N1000EHL

Polyamide 66

Ravago Manufacturing Americas, LLC



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Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				
73°F (23°C)	1.0 (53)	2.5 (130)	ft·lb/in (J/m)	ASTM D256
73°F (23°C)	2.5 (5.3)	--	ft·lb/in ² (kJ/m ²)	ISO 180
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	85	60		ASTM D785
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	460 (238)	430 (221)	°F (°C)	ASTM D648
66 psi (0.45 MPa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	190 (88.0)	160 (71.1)	°F (°C)	ASTM D648
264 psi (1.8 MPa), Unannealed	163 (73.0)	--	°F (°C)	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	1.0E+13	ohm·cm	ASTM D257
Dielectric Strength				ASTM D149
--	--	550 (22)	V/mil (kV/mm)	
-- ⁴	580 (23)	--	V/mil (kV/mm)	
Dielectric Constant (100 Hz)	3.70	6.00		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.0280 in (0.710 mm), ALL	--	V-2		
0.0280 in (0.711 mm)	V-2	--		
0.0591 in (1.50 mm), ALL	--	V-2		
0.118 in (3.00 mm), ALL	--	V-2		

Additional Information

Conditioned Dielectric Strength, ASTM D149, Short Time, 73°F: 550 V/mil

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	520 to 560 °F	271 to 293 °C
Mold Temperature	120 to 200 °F	48.9 to 93.3 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa
Screw Speed	40 to 140 rpm	40 to 140 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® N1000EHL

Polyamide 66

Ravago Manufacturing Americas, LLC

Where to Buy

Supplier

Hylon® N1000EHL

Ravago Manufacturing Americas, LLC

Manchester, TN USA

Telephone: 800-459-7009

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

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Manchester, TN USA

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

Distributor

Hylon® N1000EHL

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

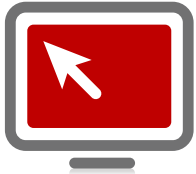
Telephone: 800-375-5440

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

Availability: North America



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