

Ready, set, glow...

Rowmark's glow product, specially engineered to exceed the photo-luminescent standards set by many municipalities and organizations. A non-radioactive flexible plastic substrate, it is the ideal choice for exit, emergency and way-finding signage.

KEY:



Laserable



Rotary
Engravable



Front
Engravable



Reverse
Engravable



ADA/Tactile



UV-LED
Printable



Indoor
Use



Outdoor
Weatherable



UV Stable



LASERGLOW®



UltraGlow

ULG321-911 2-ply 1/16"
ULG341-911 2-ply 1/8"

Glow with Adhesive

LG302-911 1-ply .020"

Glow ADA Compliant

LG311-911 1-ply 1/32"
LG321-911 1-ply 1/16"
LG341-911 1-ply 1/8"

Glow Reverse Engravable

LG322-911 2-ply .050"

Rotary Engravable



Glow/ Safety Red*

LG322-916 2-ply .050"

Glow/ Safety Green*

LG322-919 2-ply .050"

Glow/ Safety Blue*

LG322-915 2-ply .050"

Glow/ Safety Black*

LG322-914 2-ply .050"

TECHNICAL SPECIFICATIONS

Material

Modified impact acrylic

Finish

Matte non-glare

Sheet Size

24-1/8" x 48-3/4" //
613mm x 1238mm

Engraving Depth

.022" // 0.56mm (Reverse only)
*.022" // 0.56mm (Front only)

Usage

Exterior Signage
Recreational Signage
Egress & Exit Signage
Industrial Signage/Tags
MEA Certified MEA #203-08-M
ADA Compliant/Tactile Signs

Interior Signage
Safety Signage

Capabilities

Back-lighting
Bonds
Heat Bendable
Laser Vector Cuts
Screen Prints
Shears
(works on thicknesses 1/16" & under)

Bevels
Drills
Hot Stamps
Saws

///Rowmark®

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Engage. Interact. Share.



Rowmark
Simply Rowmarkable since 1987



LaserGlow®

Reliable, glow-in-the-dark material for safety-egress signage with life-saving potential.



READY, SET, GLOW...

A Rowmark exclusive! Specially engineered flexible plastic sheet that glows after exposure to light. This product is perfect for exit signs, egress markings, ADA compliant signs and safety signage.

LaserGlow® products feature consistent uniform illumination and require absolutely no energy, maintenance or special disposal.

Safety is a top concern for architects, building owners, contractors and product specifiers. LaserGlow® provides lifesaving reliability while saving on labor, maintenance and energy costs.

Ultra **NEW** LaserGlow®

ADA Compliant LaserGlow®

Single-Ply LaserGlow®

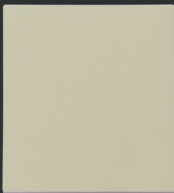
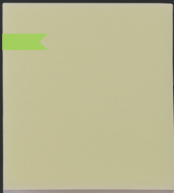
Ultra LaserGlow
ULG341-911 (1/8")
ULG321-911 (1/16")

Glow ADA Compliant
LG311-911
(1/32" w/out adhesive)

Glow ADA Compliant
LG321-911
(1/16")

Glow ADA Compliant
LG341-911
(1/8")

Glow w/ Adhesive
LG302-911
(.020")



**All LaserGlow products are produced with a white layer to provide bright, even glow distribution.*

Material Specifications

Material

Modified impact acrylic

Finish

Matte non-glare

Sheet Size

24-1/8" x 48-3/4" (613mm x 1238mm)

Engraving Depth

.022" // 0.56mm (Reverse only)

*.022" // 0.56mm (Front only)

Capabilities

Back-lighting, Bevels, Bonds, Drills, Heat Bendable, Hot Stamps, Laser Vector Cuts, Saws, Screen Prints, Shears (*works on thicknesses 1/16" & under*)

Usage

ADA Compliant/Tactile Signs, Egress & Exit Signage, Exterior Signage, Industrial Signage/Tags, Interior Signage, MEA Certified MEA #203-08-M, Recreational Signage, Safety Signage

Features

- Engineered with a non-radioactive chemical light source for your safety
- Matte non-glare surface finish works great in vinyl lettering and screen printing applications

Reverse Engravable

LaserGlow® Safety Colors

For best results, it is recommended to rotary engrave these select products.

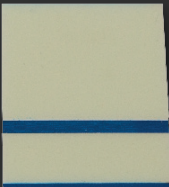
Glow Reverse
LG322-911
(.050")



Glow/Safety Black
LG322-914
(.050")



Glow/Safety Blue
LG322-915
(.050")



Glow/Safety Red
LG322-916
(.050")



Glow/Safety Green
LG322-919
(.050")



**All LaserGlow products are produced with a white layer to provide bright, even glow distribution.*

NEW ULTRAGLOW

The next evolution in glow-in-the-dark engravable sheet product!



Ultra **NEW**
LaserGlow®

ULG341-911 (1/8")

ULG321-911 (1/16")

At full charge, Ultra LaserGlow® can be seen from a distance of 25 feet, and glows for a minimum of 90 minutes.

Ultra LaserGlow® meets the UL 1994 Standard for Luminous Egress Path Marking Systems and is acceptable to use in most building egress signage applications.



Multiple LaserGlow® products offered to meet your needs:

- For use as a substrate for UV-LED printing, screen printing, and vinyl lettering
- Create lasting engraved signage with a laser or rotary engraver
- For use as an appliqué for ADA compliant tactile signage
- Vector cut-out appliqués



LASERGLOW® FEATURES



Engineered with non-radioactive chemical light source for safety

Zero energy consumption, green design, sustainable

Zero maintenance, no bulbs or battery replacement

Non-toxic, not radioactive

Thin, low profile material

Consistent, uniform illumination

Recyclable

LEED point contributor

Consistent, uniform illumination



VECTOR CUT



ENGRAVED



ADA COMPLIANT

HOW DOES LASERGLOW® WORK?

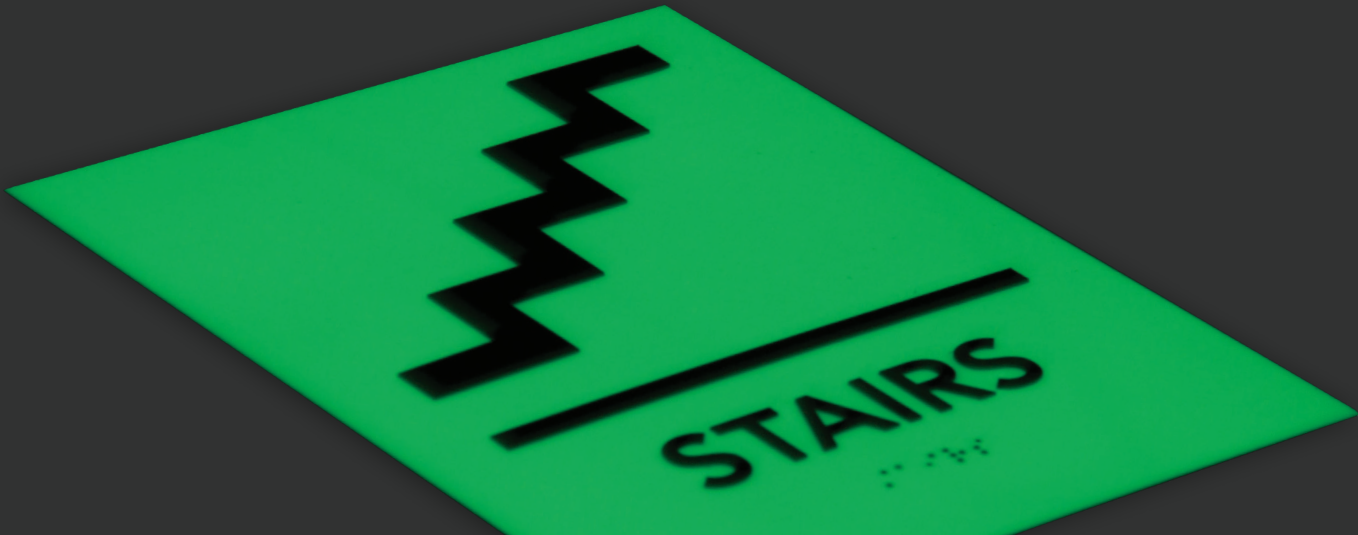
LaserGlow® absorbs and stores energy from normal ambient light sources, then, when a room or area goes dark, LaserGlow® releases energy to emit light.



HOW LASERGLOW® STACKS UP:

COMPARISON OF THE THREE MOST POPULAR EXIT, EGRESS SIGN SYSTEMS

KEY FACTOR	LED	RADIOLUMINESCENCE	LASERGLOW® PHOTOLUMINESCENT
Energy Efficiency	Good	Better	Best
Power Consumption	5 watts	N/A	N/A
Service Life	10 years	10-20 years	Unlimited
Maintenance	Electrical	Expiration Date	Dust
Disposal Hazard	Yes	Yes	No



FAQS

FREQUENTLY ASKED QUESTIONS

1

How long will the product keep glowing?

After one hour of light exposure, material will glow in excess of 90 minutes.

2

How do you charge the material, and for how long?

Full charge of LaserGlow® can be achieved after one hour of light exposure.

3

Does the material contain phosphorous?

No, our photoluminescent pigments are a blend of luminesced sulfides, oxides, carbonates and aluminates.

4

What is the lifetime of the material?

This material is warranted for two years, but its service life can extend beyond 10 years, barring unknown damaging environmental influences, incorrect cleaning or other deliberate abuse.

5

Is the material recyclable?

Yes, this material is recyclable through local plastic scrap brokers.

LASERGLOW® COMPLIANCE

UL 1994:2015 Ed. 4, Clauses 33 and 34

- The UltraGlow product was independently tested and found to comply with the test requirements of UL 1994-2015 Ed. 4, Clauses 33 & 34, Standard for Safety for Luminous Egress Path Marking Systems for Low Level Path Markers.

New York City (NYC) Local Law 26 of 2004

- Conforms with NYC Local Law 26 requiring all commercial high-rise buildings over 75 feet tall to have photoluminescent escape route systems.
- Exposure of LaserGlow® product to 21.6 lux for 120 minutes.

Time (Minutes)	N.Y. Standard	LaserGlow .015"
10	30	37.6
60	7	8.8
90	5	5.7

The International Marine (IMO) Standard

- Conforms with IMO standards for photoluminescent markings on passenger ships carrying more than 35 passengers.
- Exposure of LaserGlow® product to fluorescent lamp 25 lux, 24 hours.

Time (Minutes)	IMO Standard	LaserGlow .015"
1	-	65.6
10	15	28
60	2	8.1

Danish Standard: DIN 67 510 Parts: 1-4

- Exceeds requirements for photoluminescent escape route systems.
- Exposure of LaserGlow® product to 1000 lux for five minutes.

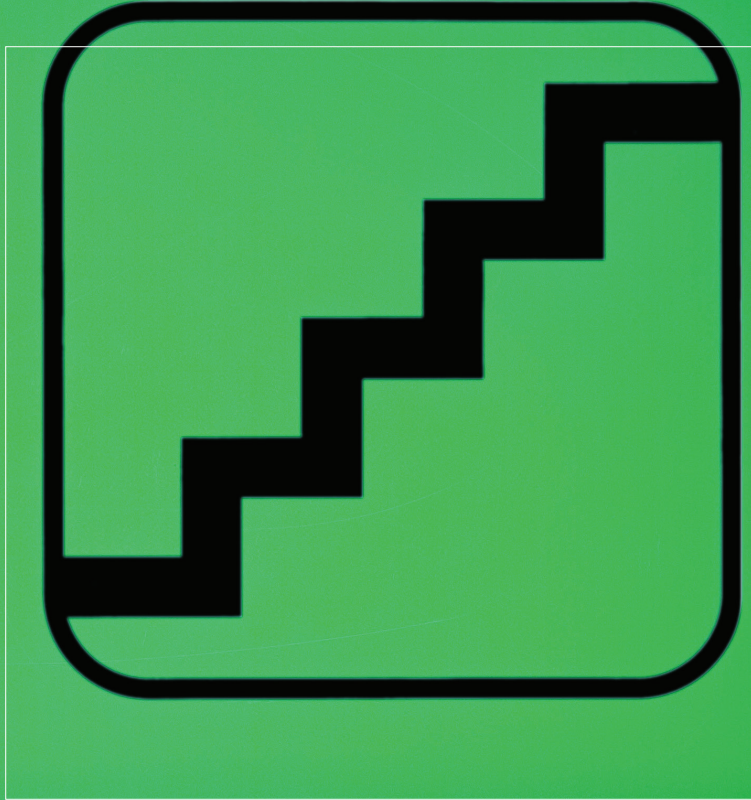
Time (Minutes)	DIN Standard	LaserGlow .015"
10	20	129
60	2.8	16.6
Afterglow (mcd/m2)	DIN Standard	LaserGlow .015"
.3	340 minutes	1162 minutes

PRODUCT SAMPLE



NEW ULTRA LASERGLOW®

PRODUCT SAMPLE



LASERGLOW®



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INDEPENDENT PRODUCT TESTING

LASERGLOW EXCEEDS THE PHOTOLUMINESCENT STANDARDS FOR:

MEA Certified # 203-08-M, per the new and more stringent MEA regulations.

DIN 67 510 Parts 1-4 -Photoluminescent escape route systems

Excitation of 1000 lux for 5 minutes. At 10 minutes afterglow should be 20 mcd/m², 60 minutes 2.8 mcd/m², and after 340 minutes 0.32 mcd/m². Photoluminescent escape route systems.

LaserGlow's afterglow luminance (mcd/m²) as compared to the Danish Standard.

Time to decrease to 0.3mcd/m² min.

Time (Minutes)	LaserGlow: .015	DIN Standard
10	✓ 129	20
60	✓ 16.6	2.8

Afterglow (mcd/m ²)	LaserGlow: .015	DIN Standard
.3	✓ 1162 minutes (19.36 hours)	340 minutes (5.66 hours)

The International Marine Organization (IMO) Standard

Excitation: Fluorescent lamp 25 lux, 24 hours (color temperature 3000K). Dealing with Photoluminescent markings on passenger ships carrying more than 35 passengers, readings are as follows:

LaserGlow's afterglow luminance (mcd/m²) as compared to the IMO Standard.

Time (Minutes)	LaserGlow: .015	IMO Standard
1	✓ 65.6	-
5	✓ 39.4	-
10	✓ 28	15
15	✓ 22.1	-
20	✓ 18.4	-
30	✓ 13.9	-
40	✓ 11.2	-
50	✓ 9.4	-
60	✓ 8.1	2

New York City (NYC) Local Law 26 of 2004 in accordance with ISO 17398

Excitation of 21.6 lux for 120 minutes. All commercial high-rise buildings over 75 feet tall.

LaserGlow's afterglow luminance (mcd/m²) as compared to the New York Standard.

Time (Minutes)	LaserGlow: .015	New York Standard
10	✓ 37.6	30
60	✓ 8.8	7
90	✓ 5.7	5

✓ = LaserGlow Exceeds Photoluminescent Standards

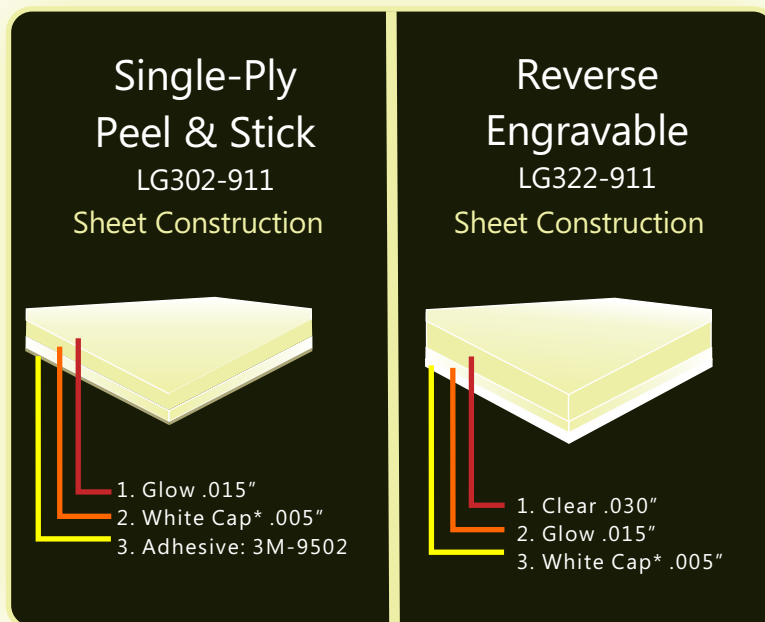
Rowmark®
Great people. Great plastic.

LaserGlow®

photoluminescent sign-making materials

Key Product Features

- LaserGlow is constructed with a non-radioactive chemical light source.
- Specially engineered from a flexible plastic substrate that glows in total darkness after exposure to light.
- When fabricated, the reverse engravable products's background glows as the engraved area can be paint filled for contrast.
- Vinyl appliqué letters adhere well to both the Single-ply and reverse engravable products.
- Excellent laser and rotary engraving properties
- LaserGlow signs have been tested by an independent laboratory and meets or exceeds the Photoluminescent standards for DIN, NYC local law 26 of 2004, and other life safety Photoluminescent standards.



*The white cap provides a bright, even glow distribution.

LaserGlow meets or exceeds the Photoluminescent standards for:

DIN 67 510 Parts 1-4 -Photoluminescent escape route systems. Excitation of 1000 lux for 5 minutes. At 10 minutes afterglow should be 20 mcd/m², 60 minutes 2.8 mcd/m², and after 340 minutes 0.32 mcd/m².

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90	✓ 5.7	5

✓ = Exceeds Photoluminescent Standards

Rowmark®



LaserGlow®

photoluminescent sign-making materials

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The International Marine Organization (IMO) standard; dealing with Photoluminescent markings on passenger ships carrying more than 35 passengers readings are as follows:

Excitation: Fluorescent lamp 25 lx, 24 hours (color temperature 3000K)

Time (Minutes)	LaserGlow: .015	IMO Standard
1	✓ 65.6	-
5	✓ 39.4	-
10	✓ 28	15
15	✓ 22.1	-
20	✓ 18.4	-
30	✓ 13.9	-
40	✓ 11.2	-
50	✓ 9.4	-
60	✓ 8.1	2

✓ = Exceeds Photoluminescent Standards

LaserGlow Storage & Masking:

LaserGlow should be stored in flat stacks of no more than 50 sheets at room temperature. The masking used for LaserGlow is traditional Rowmark masking and should not pose any unique challenges when fabricating or storing.

Lasering LaserGlow:

LaserGlow's construction makes it extremely laser friendly.

Rowmark internal testing has determined that there are no

unique challenges when lasering LaserGlow.

Performance

is similar to other Rowmark laserable materials.

For best results: Design files for fabrication using a sans serif font with a character height greater than 1".

Specifications:

Material Modified impact acrylic

Finish Matte

Sheet Size 24" x 48" (610 x 1219mm)

Peel and Stick

Thickness 1-ply: .020" (0.508mm)

Reverse Engrvable

Thickness 2-ply: .050" (1.27mm)

Fabrication (Gauges are approximate.)
Laser

Router

Rotating carbide

Cutting Depth .022" - .025"
(.56mm - .64mm)

Usage Wayfinding signage

Interior signage

Exterior signage

Back-lighting

Back-filling

Industrial tags

Vector Cutting Settings:

For best results, leave masking on the material when



Raster Lasering LaserGlow:

When raster lasering LaserGlow, it is advisable to do one pass "in focus" and a second pass "out of focus."

Multiple passes will create a smoother, glass like finish.

Raster Lasering Settings:

Rowmark has achieved favorable raster engraving results at high power and medium speed. The settings provided are meant as a guide only. Your settings will need to be adjusted to achieve optimal results.

Settings on a 60 Watt Trotec laser: 100 Power, 70 Speed, 2 passes. Settings on a 40 Watt Universal laser: 100 Power, 60 Speed, 2 passes.

Rotary Engraving LaserGlow:

The engraving depth for LaserGlow is .022". Rotary engraving LaserGlow provides clean, crisp edges and sharp graphics. With all rotary engraving, it is recommended that a vacuum system be used to remove debris. This will ensure that the engraving depth is consistent and that there is less chance of scratching of the surface during engraving.

For best results: Design files for fabrication using a sans serif font with a character height greater than 1".

Cleaning LaserGlow:

The following cleaning agents should be used to clean LaserGlow:

- | | |
|--------------------------------|----------------------------|
| • Dish Soap (non citrus) | • Window Cleaner |
| • Furniture Polish (Pledge®) | • Bleach Cleaner (Clorax®) |
| • Novus Plastic Polish Level 1 | • PineSol® Cleaner |
| • Rubbing Alcohol | • Lysol® Spray |
| • Formula 409® | • Lighter Fluid |

1. As a general rule, Rowmark recommends using mild soap and water whenever possible.
2. Test a piece of scrap or small area of the material before cleaning entire piece.
3. Use only soft cloths or sponges for cleaning. Do not use Brillo®/S.O.S.® pads or steel wool.
4. Use a Q-Tip® to clean small areas
5. Rinse with warm water.
6. Ultrasonic cleaning is NOT RECOMMENDED for any Rowmark product.
7. To remove dust from engraved areas, try compressed air before any solvent cleaner.
8. Cleaners with abrasives, such as Comet® brand cleaner, are not recommended.

For a complete list of recommended/non-recommended cleaning agents, please visit

http://www.rowmark.com/MARK/techhelpdocs/working_with_sheet/sheet.asp and click on the link: "How to Clean Rowmark Products."



Samples of LaserGlow fabricated.

**FIRE
HOSE**



EXIT

EXIT TO STREET LEVEL