

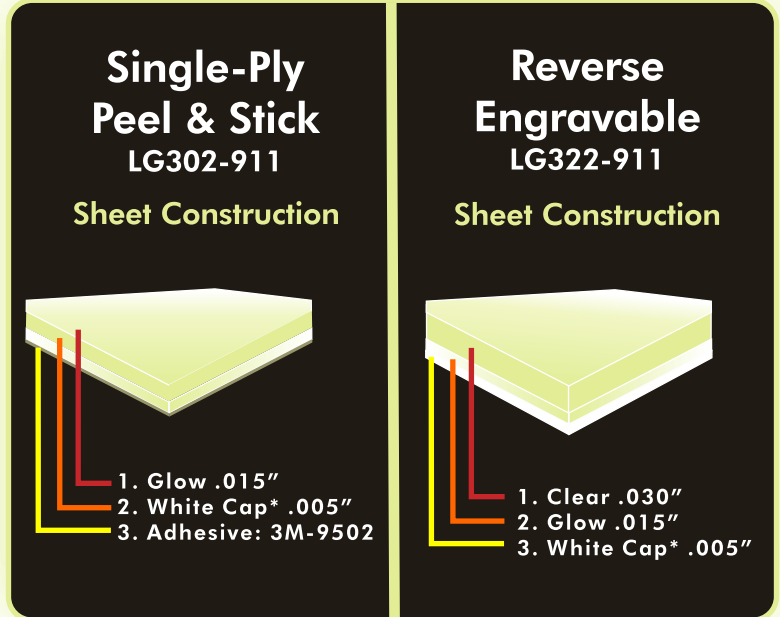


# LaserGlow™

photoluminescent products

## 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 appliquéd 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/m<sup>2</sup>, 60 minutes 2.8 mcd/m<sup>2</sup>, and after 340 minutes 0.32 mcd/m<sup>2</sup>.

LaserGlow's afterglow luminance (mcd/m<sup>2</sup>) as compared to the Danish Standard.

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

Time to decrease to 0.3mcd/m<sup>2</sup> min

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

New York City (NYC) Local Law 26 of 2004 in accordance with ISO 17398. All commercial high-rise buildings over 75 feet tall. Excitation of 21.6 lux for 120 minutes.

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

✓ = Exceeds Photoluminescent Standards



# LaserGlow™

photoluminescent products

## LaserGlow meets or exceeds the Photoluminescent standards for:

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".

## Vector Cutting Settings:

For best results, leave masking on the material when vector cutting. Rowmark has achieved favorable vector cutting results at high power and low speed. The settings provided are meant as a guide only. Your settings will need to be adjusted to achieve optimal results.

Settings - 60 Watt Trotec laser: 60 Power 8 Speed -1 Pass.

Settings - 40 Watt Universal laser: 65 Power 5 Speed -1 Pass.

## 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)

(Gauges are approximate.)

Fabrication Laser

Router

Rotating carbide

Cutting Depth .022" - .025"

(.56mm - .64mm)

Usage Wayfinding signage

Interior signage

Exterior signage

Back-lighting

Back-filling

Industrial tags



# LaserGlow™

---

photoluminescent products

## 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)
- Furniture Polish (Pledge®)
- Novus Plastic Polish Level 1
- Rubbing Alcohol
- Formula 409®
- Window Cleaner
- Bleach Cleaner (Clorax®)
- PineSol® Cleaner
- Lysol® Spray
- 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](http://www.rowmark.com/MARK/techhelpdocs/working_with_sheet/sheet.asp) and click on the link: "How to Clean Rowmark Products."

**Rowmark®**  
*Great people. Great plastic.*



# LaserGlow™

photoluminescent products

*Samples of LaserGlow fabricated.*

**FIRE  
HOSE**



**EXIT**

**EXIT TO STREET LEVEL**