

///Rowmark®

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LaserGlow®
photoluminescent sign-making materials



Specially engineered flexible plastic sheet that glows in total darkness after exposure to light.

Rowmark's LaserGlow® is MEA certified, has been tested by independent laboratories and meets or exceeds the Photoluminescent standards for DIN, NYC local law 26 of 2004, and the IMO.

Key Product Features:

- ▶ Meets MEA's new and more stringent regulations (Material & Equipment Acceptance) # 203-08-M.
- ▶ Engineered with a non-radioactive chemical light source for your safety.
- ▶ Matte non-glare surface finish.
- ▶ Multiple products offered to suit a variety of applications, including:
 - » Substrate for screen printing and vinyl lettering
 - » Laser or rotary reverse engraving, which can be back-painted and back-lit
 - » ADA-compliant tactile signage
 - » Vector cut appliqué



LaserGlow photoluminescent sign-making materials

...when a life depends on effective safety and wayfinding signage.

HOW DOES LASERGLOW® WORK?

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

ADA-Compliant LaserGlow

Item Code:
LG311-911 (1/32")
(without adhesive)
LG311-9118 (1/32")
(with adhesive)

1. Clear .010"
2. Glow .015"
3. White Cap* .005"
4. Adhesive: 3M-9502

Item Code:
LG321-911 (1/16")

1. Clear .042"
2. Glow .015"
3. White Cap* .005"

Item Code:
LG341-911 (1/8")

1. Clear .100"
2. Glow .015"
3. White Cap* .005"

Single-Ply with adhesive

Item Code:
LG302-911

1. Glow .015"
2. White Cap* .005"
3. Adhesive: 3M-9502

Reverse Engravable

Item Code:
LG322-911

1. Clear .040"
2. Glow .015"
3. White Cap* .005"

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

Glow/ Safety Colors

Glow/Safety Red*
Item Code:
LG322-916 (.050")

1. Glow .015"
2. White Cap* .005"
3. Red .030"

Glow/Safety Green*
Item Code:
LG322-919 (.050")

1. Glow .015"
2. White Cap* .005"
3. Green .030"

Glow/Safety Blue*
Item Code:
LG322-915 (.050")

1. Glow .015"
2. White Cap* .005"
3. Blue .030"

Glow/Safety Black*
Item Code:
LG322-914 (.050")

1. Glow .015"
2. White Cap* .005"
3. Black .030"

*For best results, it is recommended to rotary engrave these select products.
NOTE: Drawings not shown to scale in regard to thickness.

PRODUCT SPECIFICATIONS:

Material:	Modified impact acrylic for appliqué, tactile signage, front or reverse engraving
Finish:	Matte non-glare
Sheet Size:	24" x 48¾" (610 x 1238mm)
Fabrication:	Laser, Router, Rotating Carbide
Cutting Depth:	.022" (0.56 mm) - Reverse Only ; .025" (0.64 mm)
Usage:	Interior signage, exterior signage, tactile signage, signage component or substrate
Capabilities:	Saws, Screen Prints, Back-lighting, Drills, Fine Detail, Braille-Engravable, Laser Vector Cuts, UV Stable, Thermal Prints

Independent Product Testing

LaserGlow® exceeds the Photoluminescent standards for:



Material and Equipment Acceptance (MEA)

LaserGlow® meets the new and more stringent MEA regulations.

It is the first and only glow-in-the-dark engravable acrylic sheet material to be MEA certified by New York City. This means that LaserGlow® products can be used to meet NYC Local Law 26 for photoluminescent exit path markings. While other products may claim to meet MEA standards, they cannot be used for compliant signage applications unless they are MEA certified.

LaserGlow's MEA number is 203-08-M.

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



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

How LASERGLOW STACKS UP

Comparison of the 3 most popular exit sign systems

Key Factor	LED	Radioluminescence	LaserGlow (Photoluminescent)
Energy Efficiency	Good	Better	Best
Power Consumption	5 watts	NA	NA
Service Life	10 years	10-20 years	Unlimited
Maintenance	Electrical	Expiration Date	Dust
Disposal Hazard	Yes	Yes	No



Reliable, glow-in-the-dark material for safety/egress signage that your life may depend on

