PHOTOLUMINESCENT

TAMPER RESISTANT FILMS & TAPES

EverGlow®

EverGlow Tamper Resistant Tape- for marking exit path components & obstacles
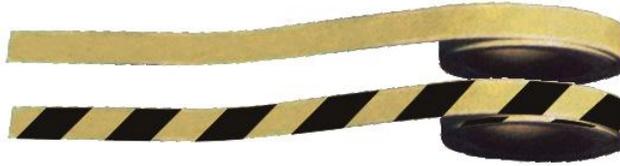
Availability

We stock 1 inch width tapes in Charlotte, NC. All products are marked for use in New York City and listed to UL 1994, and exceed the performance requirements of all applicable standards and codes in the US and Canada. We can typically deliver other width films and tapes within 30 days of acceptance of your order. Primary applications are for marking elements of exit path marking systems- stairs & handrails, landings & perimeters, door frames & hardware, obstacles and hazards.

Description

EverGlow® Tamper Resistant Film & Tape is an innovative, high performance photoluminescent acrylic film used to manufacture safety signs, markers and tapes. Tamper Resistant Tape an environmentally friendly film and is ideal for exit path marking on clean, dry, smooth surfaces such as stairs & handrails, door frames & hardware, aisles, perimeters & landings and obstacles & hazards.

- Easy installation- peel and stick
- available in HI150, HI300 and TL300 luminance grades
- contains ZERO radioactive, heavy metal, toxic, plasticizers, VOC or vinyl components
- explosion safe (does not generate energy or sparks to induce explosions)
- dimensionally stable and conformable to all smooth surfaces
- good wear resistance, will not lift at corners or edges
- excellent chemical and stain resistance
- can be manufactured with different adhesives
- can be disposed of in a sanitary landfill or incinerator

EverGlow manufactures Tamper Resistant Film & Tape for use in safety applications. We produce our film products in sheet and roll form and we use these to make many different signs and tapes. Further, different adhesives are available so that we can design a product to exactly fit your application and installation requirements.
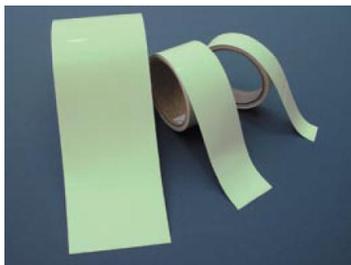
Unprinted Sign & Tape Stock (available in sheet or roll)
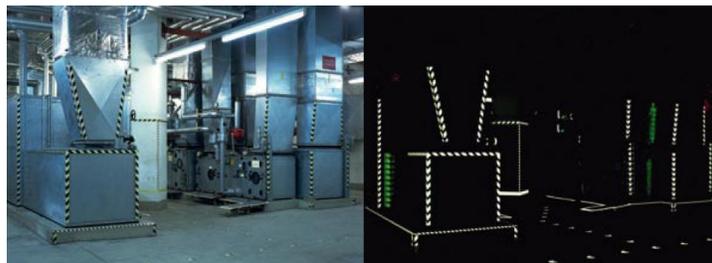
Obstacle & Hazard Tapes

PHOTOLUMINESCENT
TAMPER RESISTANT FILMS & TAPES

Guidance tapes are full glow and are generally designed to define an exit path. Common applications are surrounding an exit door frame, perimeter marking on landings or horizontal corridors in exit stairs. Another use is to mark handrails on exit stairs.
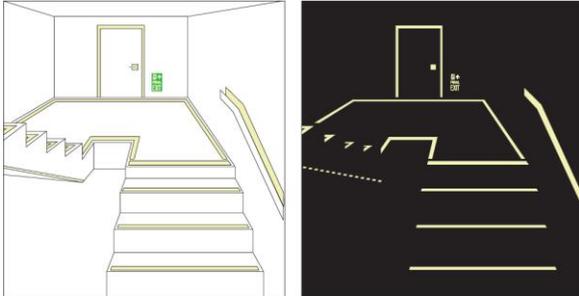
EverGlow tapes used to mark handrail, landing perimeter, exit door framed and door hardware.

Proper use of guidance tapes will identify the safest exit path and direct the occupant away from hazards and dead end corridors that might slow an emergency evacuation.

Application & Use
Designed for use as interior photoluminescent signs, markers and tapes.
- buildings
- ships & marine work platforms
- railroads, airplanes

Relevant Standards
Meets or exceeds the requirements of the following standards, building & fire codes and Life Safety Code
- ASTM E2073 – 2007
- ASTM D3684 – 2004
- ASTM D4828 – 1994 (2003)
- ASTM D635 – 2003
- Bombardier SMP 800-C
- DIN 67 510
- PSPA Standard – Class C (HI150) and Class D (HI300, TL300)
- JIS Z 9100
- ISO 15 370
- IMO Resolution A.752(18)
- Marine Safety Committee MSC.27(61)
- APTA SS-PS-002-98 Rev 2 & APTA SS-PS-004-99 Rev 1 (HI150)
- APTA SS-PS-002-98 Rev 3 & APTA SS-PS-004-99 Rev 2 (HI300)
- OSHA 1910.37
- New York City RS 6-1 (as required by Local Law 26 of 2004)
- UL 1994 (US) and UL S572 (Canada)
- IBC and IFC - 2009
- NFPA 101 and 5000 - 2009

PHOTOLUMINESCENT
TAMPER RESISTANT FILMS & TAPES

Physical Properties

Appearance	glossy, light yellow green color
Adhesive	permanent, pressure sensitive
Application Surface	clean, dry, smooth- flat & curved
Luminance (DIN 67 510)	HI150 standard, HI300 & TL300 available
Application	50 F to 90 F
Temperature Range	10 C to 32 C
Service	0 F to 140 F
Temperature Range	-18 C to 60 C
Thickness	7 - 8 mils
(film and adhesive)	0.18 - 0.20 mm

General Performance Considerations

The durability and performance of EverGlow Tamper Resistant Film & Tape depends on the following:

- preparation of the application surface
- application of the film
- cleaning methods
- traffic & wear
- film is designed to fracture as it wears or removed from the application surface
- EverGlow Tamper Resistant Film is NOT repositionable after application

Application Considerations

- Apply EverGlow Tamper Resistant Film according to instructions
- Must be applied to a clean, dry, oil free and smooth surface
- Can be cut and shaped with a clean, sharp knife or scissor
- Remove release liner as film is applied; must not be stretched during application; adhesive must not be contaminated
- Film is conformable to most surfaces and shapes; edges can be sealed as necessary to keep out moisture or contaminants
- Roll film to insure complete contact of adhesive with application surface
- Film is not as durable as EverGlow aluminum or epoxy markings in high wear installations
- Film cannot be repositioned after application
- Film is designed to fracture with wear and if removed from the application surface

Film Removal

EverGlow Tamper Resistant Film can be removed with a heat gun and a scraper. If heat is not available, a solvent such as paint thinner can be used to soften the adhesive and a scraper used to remove the film and adhesive from the application surface. Tamper Resistant Film & Tape is designed to be difficult to remove from the installation surface.

PHOTOLUMINESCENT
TAMPER RESISTANT FILMS & TAPES

Luminance Characteristics

This is a glow in the dark film. Although the film, once charged, glows continuously, it can best be seen when the installation area is dark. As with all photoluminescent signs and markings, the luminance of EverGlow Tamper Resistant Film decreases with time once the charging light source is removed or extinguished. Luminance, or afterglow, of the film depends on the luminance grade of the film (HI150, HI300 or TL300), the intensity of the charging light source on the surface of the film and the exposure time of the film to the light source. EverGlow Tamper Resistant Film can be charged and discharged for unlimited numbers of cycles during the life of the film.

HI150	Typical Luminance (mcd/m^2) for Different Charging Conditions			
	DIN 67 510	ASTM E2073-07	NYC RS 6-1	UL 1994
10 min	150	44	36	Meets UL 1994 Observation Visibility Test Requirements
60 min	22	10	9	
90 min	15	7	6	
120 min	9	5	5	
Charging Light	1000 lx xenon, 5 min	2 ft-c CW fluorescent, 2 hr	2 ft-c CW fluorescent, 2 hr	1 ft-c CW fluorescent, 1 hr

Chemical Characteristics

Liquid	Exposure Time	Result
Detergent (1% hand soap)	24 hr	No visible effect
Cold purifier	24 hr	No visible effect
Motor oil	24 hr	No visible effect
Benzene	24 hr	No visible effect
Antifreeze	24 hr	No visible effect
Diesel fuel	24 hr	No visible effect
Sulfuric acid (30%)	24 hr	No visible effect
Isopropyl alcohol	24 hr	No visible effect
Distilled water	8 hr/95 C	No visible effect
Salt water spray	120 hr/35 C	No visible effect
Acetone	4 min	No visible effect

Abrasion Resistance

Cycles	Weight Applied	Result
100	250 g	Slight change in the surface
100	500 g	Slight scratches in the surface
100	1,000 g	Noticeable scratches in the surface
150	250 g	Slight scratches in the surface
200	250 g	Slight scratches in the surface

Storage and Packaging

EverGlow Tamper Resistant Film & Tape should be stored in a cool, dry area at room temperature-conditioned air at 65-75 °F (18-24 °C) and 40-50% relative humidity. EverGlow film and tape has an exceptionally long storage life more than five years.

Warranty

EverGlow warrants that EverGlow Tamper Resistant Film and Tape, when used for photoluminescent signing and marking in North America will meet original design luminance specifications for 25 years for interior installations and 3 years for exterior installations. See the EverGlow Limited Warranty for details and limitations.