

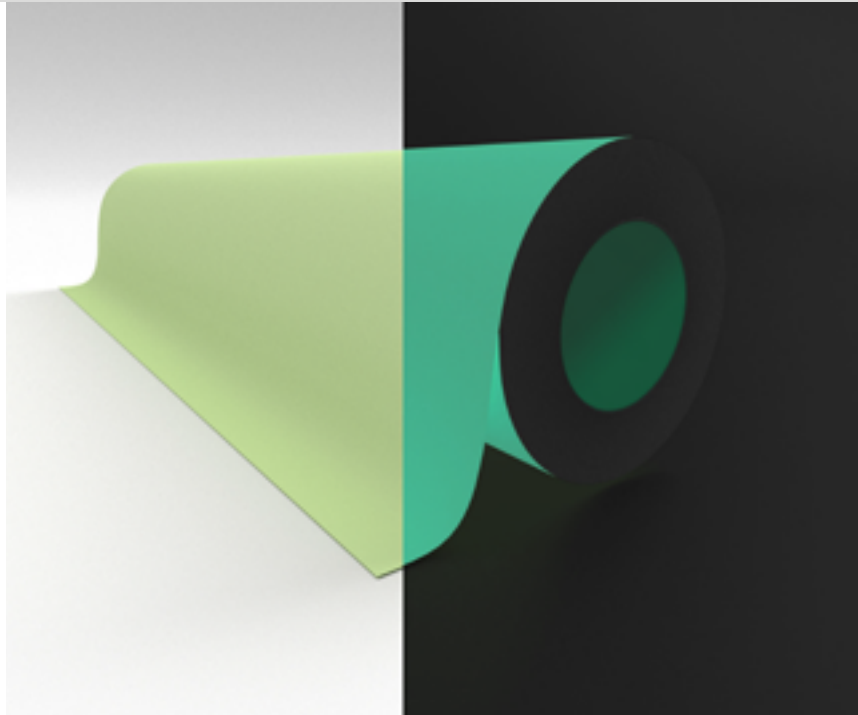
PHOTOLUMINESCENT FOIL

GENERAL DESCRIPTION

Elmetal photoluminescent (phosphorescent) foil is flexible material composed of a thin PVC foil and elastic luminous layer. Material is equipped with a self-adhesive layer which allows for easy installation on wide range of surfaces.

This product is non-toxic, non-hazardous, non-radioactive and offers high glow intensity and long term durability.

It meets the requirements of the ISO 15370:2010 which classify it as a fireretardant material.



INSTALLATION INSTRUCTION

Photoluminescent foil is often used in the production of evacuation and safety signage systems – eg. warning tapes and evacuation signs. It can also serve as a background to create an unusual innovative glow-in-the-dark effect. This type of foil can also be used in the production of information signs.

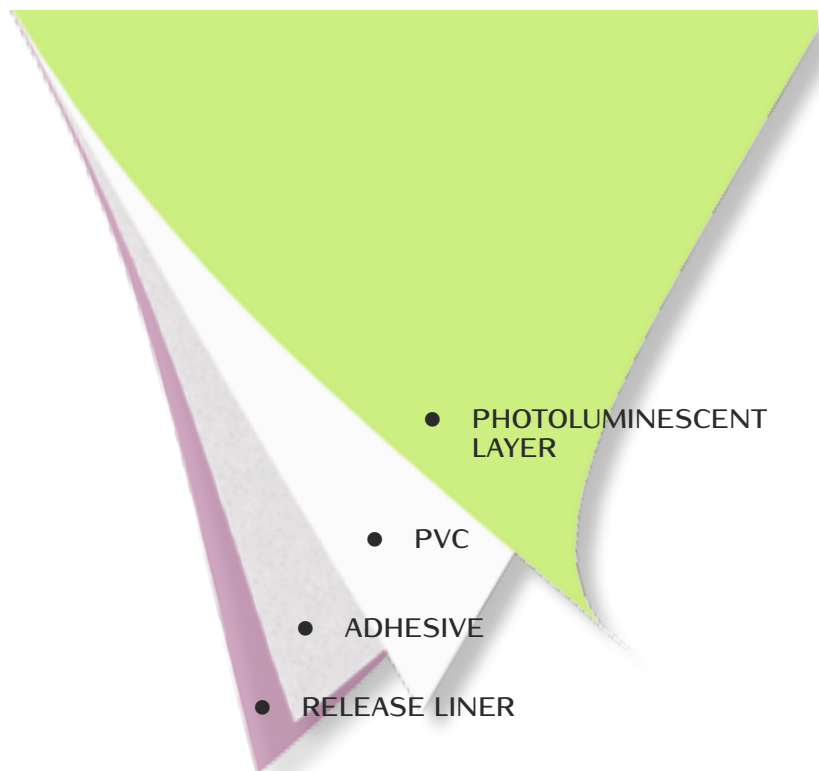
Photoluminescent foil can be used also as an element of the Low Location Lighting systems and can be installed directly to the various range of surfaces.

ADVANTAGES

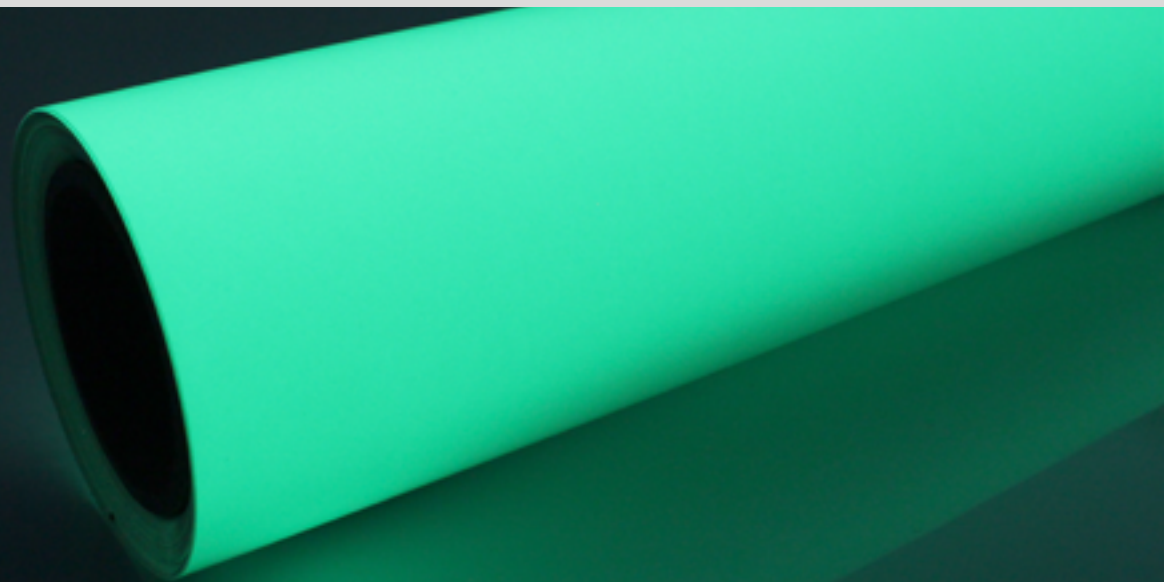
1. Produced of PVC with an enhanced fire resistance.
2. Fair resistance to sea water and detergents (it can be cleaned using detergents).
3. Can be used at temperatures ranging from -20°C to +50°C.
4. High physical and mechanical durability.
5. Self-adhesive layer makes it possible to apply material on wide range of surfaces.

MAINTENANCE AND STORING

Photoluminescent ilm should be stored in dry and well ventilated area in temperature range between +15°C and 30°C and humidity 40-60%, out of sunlight, in clean and dry area. It should be stored in flat position to avoid deformation.



PHOTOLUMINESCENT FOIL



PHYSICAL AND CHEMICAL PROPERTIES

PARAMETER	RESULT
Main composition	polyvinyl chloride, strontium aluminate, europium, dysprosium
Thickness	0,38 mm (without silicon paper)
Standard dimension	1000 mm x 50 m
Adhesive glutinosity	$\geq 400\text{N/m}^2$
Service temperature	-20°C to +50°C
Workable life	5 - 10 years (indoor) 3 - 5 years (outdoor)
Pull intensity	$\geq 12\text{mpa}$
Break intensity	≥ 150
Shelf life	Undefined – if stored properly

AFTERGLOW PERFORMANCE

Foil type	Brightness (mcd/m ²)		Afterglow time	Dimension	Weight per m ²
	10 min	60 min			
B	≥ 111	≥ 14	min. 1970 min	1000 mm x 50 m	0,7 kg
C	≥ 176	≥ 22	min. 2752 min	1000 mm x 50 m	
D	≥ 265	≥ 33	min. 4256 min	1000 mm x 50 m	



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