RITRAMA

TECHNICAL DATA SHEET
ISSUE: 1
DATE: 16/08/2021

Ri-Screen Photoluminescent

PRODUCT DESCRIPTION / BENEFITS

Ri-Screen Photoluminescent Perm PE N is a self-adhesive phosphorescent film, especially designed for safety signs: the film glows in the dark and is highly visible during the first 30 minutes and remain visible up to 10 hours in total darkness.
Ri-Screen Photoluminescent Perm PE N comply with Din 67510 safety regulation.
The face film doesn't contain any radioactive element, has an indoor durability up to 5 years and is compatible with solvent and UV curable screen-printing inks, and with solvent, eco-solvent or UV curable inkjet printing inks.
The permanent solvent-based acrylic adhesive provides a good adhesion on a wide range of substrates. The 140 g/m² PE coated kraft paper ensures a good flatness and a good printing result. All products are REACH & RoHS compliant.

TYPICAL USE

- Safety signs in vessels, tunnels, cinemas, and all public building.
- Labels and stickers.

CONSTRUCTION

- **Face film:** 270 µm photoluminescent film
- **Adhesive:** permanent clear solvent-based acrylic
- **Release liner:** PE coated kraft liner 140g/m²

Products:
Yellow-green matt finish: Code 01428 - **Ri-Screen Photoluminescent Perm PE N**

CONVERTING METHOD

Screen printing with solvent-based and UV-curable inks.
Inkjet printing with solvent, eco-solvent and UV-curable inks.

APPLICATION METHOD / INSTRUCTIONS FOR USE

Suitable for dry and wet application method on clean and degreased substrates.
Application temperature above 10°C.

EXPECTED DURABILITY

The expected indoor durability is 5 years.
This information is based on real file experience and artificial aging according to ISO 4892-2.
Note: Exposure to severe temperature and ultra-violet light will cause a quicker deterioration. This applies also to polluted area, high altitude, horizontal applications, and south-facing exposure in north hemisphere.

SHELF LIFE

Shelf life is 18 months, when stored at 23 °C and 50 % relative humidity conditions.
Higher temperatures and/or humidity levels will reduce product shelf life.
NB: Printing results start to deteriorate after 12 months storage.

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PHYSICO-CHEMICAL PROPERTIES / TYPICAL VALUES

Face thickness, without adhesive	270 µm	ISO 534-80
Face thickness, with adhesive	295 µm	ISO 534-80
Luminosity after 5 minutes charge at 1000 lux - After 10 minutes - After 60 minutes	 99 mcd/sqm 14 mcd/sqm	 Din 67510
Tensile strength (machine direction)	> 75 N/cm	ISO 527
Elongation at break (machine direction)	>100%	ISO 527
Fire resistance on aluminium	Self-extinguishing	ISO 3795:1989
Dimensional stability (1 week @70 °C on glass)	1.5 mm	FTM 14
Initial adhesion on glass (20 minutes)	12 N/25mm	FTM 1
Adhesion on glass (24 hours)	15 N/25mm	FTM 1
Final adhesion on glass (1 week)	17 N/25mm	FTM 1
Minimum application temperature	+10 °C	
Service temperature	From -40 °C to +90 °C	
PE coated kraft liner	140g/m²	ISO 536

QUALITY CERTIFICATION

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001