

myMEDIA 7940 NiteGlo Photoluminescent

Product Description

myMEDIA 7940 NiteGlo Photoluminescent is a flexible, intense photoluminescent safety film in matte light yellow, coated with a permanent acrylic adhesive. It is designed to meet personal safety, emergency exit and other safety standards. After being exposed to artificial or natural light, the phosphorescent film has a particularly high initial brightness in sudden darkness, and the intensity of luminosity decreases over time. Light charging can be done any number of times without reducing the afterglow properties. Typical applications are safety applications, such as for warning signs, emergency exits, fire protection and escape route markings in buildings, tunnels, shipping, rail traffic or in military applications, indoors and outdoors. The homogeneous surface can be excellently printed with latex, eco solvent, solvent and UV-curable inks as well as in screen printing and processed with the cutting plotter. The product not only meets the requirements of DIN 67510 Part 1 for safety markings, but also exceeds the minimum requirement by 5.5 times and contains no radioactive substances.

Physical Characteristics

Front material	Phosphorescent PVC film, photoluminescent	
Thickness / Weight	180 µm	
Colour / Finish	Light yellow, matt	
Adhesive	Solvent polyacrylate, transparent, permanent	
Liner	Kraftpaper, 150 g/m ²	
Durability	Up to 5 years indoor, 3 years outdoor (vertically, climate zone 1)	
Application temperature	>= +10°C	
Temperature range	-10°C to +65°C	
Adhesion after 24h	30 N/25 mm 24 N/25 mm 20 N/25 mm	PSTC 101 (on stainless steel) PSTC 101 (on powder coating) PSTC 101 (on polyethylene)
Luminosity	After 10 minutes 110 mcd/m ² After 60 minutes 10 mcd/m ² Decay time 900 minutes	DIN 67510 (Charging with xenon lamp 1000 lux for 5 min.)

Chemical resistance

Test method	The product was laminated onto a stainless steel plate and conditioned at room temperature for 24 hours before testing. It was covered with the reagent in such a way that the edges of the product were also in contact with the reagent. The sample was exposed to the reagent for one hour at room temperature, after which the reagent was removed and the product was immediately tested for scratch resistance, delamination and other visual effects.	
Solvent resistance	Water 10% salt water Bleach Trichloroethylene 25% sulfuric acid 1% sodium hydroxide Unleaded petrol Diesel fuel Hydraulic fluid 50% Antifreeze in water Butanone, methylethylketon Mineral spirits 99% isopropanol	Recommended Recommended Recommended Not Recommended Recommended Occasional contact only Occasional contact only Occasional contact only Recommended Recommended Not Recommended Recommended Recommended

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Storage	
Shelf life	Up to 1 year in unopened original packaging
Storage conditions	+18°C to +25°C at 50-55% relative humidity
Storage notice	Remove the roll from the printer after each use and store in the original sealed packaging.

Printing Method	
Compatible inks	Latex, eco-solvent, solvent, UV-curing and screen printing
Drying	The digital print must be ABSOLUTELY DRY! The drying of the printed medium is strongly dependent on the amount of solvent applied (ink application), therefore sufficiently long drying times must be taken into account. When printing the material in a roll-to-roll process, the printed web must be unrolled and laid out flat again as quickly as possible until final drying in order to achieve the best drying results. The material should be dried in an unrolled state for at least 24 hours before further processing. If this is not possible, place the roll upright and very loosely wound on an air-permeable (grid) floor to ensure air circulation. Insufficient drying (solvent residues, rewetting, etc.) can lead to blocking in the rolled state and subsequently to unrolling, shrinkage and insufficient adhesion, which in that case are not covered by the warranty. Therefore, the drying must be tested by practical methods, such as tesa test (optimally with cross cut), grip test, abrasion test and odour test, before further processing, lamination or application.

Application	
Charging the luminosity	Afterglow works by exposure to ambient light or natural sunlight. Fluorescent light is the best and fastest charging light, incandescent lamps take longer to charge. There must be a minimum amount of ambient light for the product to charge sufficiently.

Processing and converting	
Recommended surfaces	Smooth, flat substrates. The substrate must be dry and free of dust and grease. Plastic substrates must be completely outgassed to prevent bubbles from forming after bonding. Porous surfaces must be sealed, fill all cracks and repair to a smooth surface.
Application method	Dry application recommended
Cutting plotter	Suitable
Lamination	Lamination is not recommended.

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Advantages and features

- Bright yellow longlasting photoluminescent PVC safety film
- No plasticisers, therefore almost no shrinkage
- Meets DIN 67510-1 for safety markings
- Intensive luminosity 5.5 times higher than required
- Luminosity after 10/60 min: 110/10 mcd/m²
- Decay time is 900 min
- Can be used indoors for at least 5 years or outdoors for 3 years
- Contains no radioactive substances
- Digital printing with latex, eco solvent, solvent, UV
- Suitable for screen printing and cutting plotters

Applications

- Safety applications
- Warning signs
- Emergency exits
- Fire safety signs
- First aid signs
- Escape route signs
- Signposts
- Shipping
- Rail traffic
- Military applications
- Stickers for children's rooms
- Advertising stickers
- Night events

Important Notice

Information on physical and chemical characteristics is based upon tests, practical knowledge and experience. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Because of the variety of uses and applications, the purchasers should independently determine, prior to use, the suitability of this material to their specific use and carefully consider the suitability and performance of the product. The purchaser shall assume all risks for any use and application of the material. All specifications and technical data are subject to change without prior notice, errors and omissions expected. All warranty matters are regulated by our general terms and conditions.