

LONGLITE MEGA 700

Foils & Tapes

TECHNICAL DATA SHEET

1. Composition

The long-lasting photoluminescent PVC foil consists of three layers:

- Top layer Highly transparent smooth PVC cover, good printability with e.g. silk-screen processing, contains UV-absorber
- Intermediate layer PVC foil with incorporated photoluminescent pigments
- Bottom layer Self-adhesive PVC foil with excellent adhesive power
App. 2-fold the requirement of DIN

The foils are manufactured according to DIN 67510

Dimensions: Roll width: 102 cm
 Roll length: 50 m
 Thickness incl. self-adhesive layer: ca.0.64 mm

Properties	Requirements	Examination as per
Weight	~ 1250 g/m ²	
Density of photo-luminescence	≥ 480 / 60 - 3505 W-K	DIN 67510 part 1 lab test
Flame resistance Inflammability	class K1 class F1	DIN S3438-3 DIN 53438 part 3
Resistance to aging	mark 3as per EN ISO 105-A02	500 h at 35°C DIN 53387
Resistance to salt spray droplets	no visible change	120 h as DIN 50021
Resistance to chemical influence	no visible change	DIN 74069
Resistance to cleaners	no visible change	DIN 30646 test liquid L
For self-adhesive products with glue P,N,S like signs or tapes, the adhesive strength applies to	≥ degree T (≥50N/25mm) (without climatic stress) ≥ degree T (≥30N/25mm) (with climatic stress)	DIN 30646

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2. Properties

- Optimal resistance to light under normal when application conditions.
- Capable to withstand temperatures between -40°C and +80°C. At the time of application, substrate must have a temperature of not less than +15°C.
- The foil can be printed with silk-screen inks (PVC) with excellent results. (e.g. for safety signs or advertising stickers).
- LONGLITE foils can easily be cut to desired sizes (e.g. for tapes) or punched to produce numbers, letters, logos etc.
- The material is resistant to water, sea-water and non-aggressive chemicals.

For underwater applications, the following conditions must be observed:

- The substratum must be dry, clean and degreased.
- The photoluminescent performance can also be achieved under water if the foil is activated with suitable light sources either beforehand (e.g. for diving equipment) or while in water.

3. Application of the foil on various substrates

The foil can perfectly be applied on clean surfaces which are free from greases, waxes and silicone, no matter whether they are metal based, glass or plastic.

With mineral substrates (such as concrete), or other clean but textured substrates (such as raw fibres or textile wallpapers) the adhesive power will be reduced and the texture of the substrate will show up through the foil.

4. Remarks

All information in this product data sheet corresponds to the today's state of our knowledge and should inform about our products and their application possibilities. They are not meant to assure certain properties of the products or their suitability for a concrete purpose. Possibly existing protective rights are to be taken into consideration. We guarantee a flawless quality within the scope of our general terms of sale.