

Type 5002 Permalight® Plus55 Photoluminescent Adhesive Label

1. Manufacturer

All labelling products are produced according to ISO 9001 and ISO 14001 and comply with the highest quality standards. Selected parameters such as weather resistance, adhesive strength and chemical resistance are audited in our in-house laboratory and checked periodically.

2. Product specifications

Material class	PERMALIGHT® plus55 Photoluminescent Polyethylene
Features	Self-adhesive
Temperature resistance	- 40°C to +80 °C
Outdoor use durability	2 Years*
Indoor use durability	Almost limitless

*Printed sign with vertical outdoor exposure and Central European normal climate

2.1 Durability for outdoor use	Assessment after 2 Years of Exposure
Overall appearance	Matter surface, sign flat and even
UV stability colour	Minimal fading, 100 % readability
Overall evaluation	Overall combination lasts 2 years of outdoor use

2.2 Technical data

Surface	30 – 35 GE / 20° DIN 67531
Thickness	80 – 100µm
Adhesive	Acrylate adhesive
Adhesive Strength FTM1 Stainless Steel after 24H	18 N / 25 mm
Backing Paper	67 – 140 g
Adhesion Temperature	> 10 °C
Appropriate Substrates (among others)	Lacquered wood, metal, plastic, glass, coating, cardboard...

Persistence Values DIN 67510

Product	Luminance** 10 min after loss of light	Luminance** 60 min after loss of light	Classification according to Manufacturer*** (10/60 minute value)	Decay Time
PERMALIGHT® plus55	55 mcd/m ²	8 mcd/m ²	Klasse B (50/7 mcd/m ²)	900 min / 15hrs

** in accordance with DIN 67510-1:2020 Phosphorescent pigments and products, measurement and identification by manufacturer

*** Classification in accordance with DIN 67510-1:2020 Phosphorescent pigments and products, measurement and identification by manufacturer

2.3 Wipe resistance	Wipe test based on DIN 30643
Isopropyl	✓
n-Heptane	✓
Artificial Sweat Solution	✓
Grease	✓

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2.4 Chemical resistance	Immersion test based on DIN 30646
Distilled Water 65 °C	✓
Detergent Solution 10 %	✓
Cold Cleaner	✓
Transformer Oil	✓
White Spirit 145/200	✓
Anti-freeze Solution	✓
Diesel	✓

3. Use and application

Our adhesive labels are specially designed for use in harsh industrial environments. They have an almost limitless indoor use and at least two years shelf life for protected outdoor applications. They offer a fast and practical possibility of permanent and individual identification, and they are suitable for adhering to almost all surfaces.

In addition, they have good weather resistance and resistance to many chemicals.

Long-lasting safety signs provide increased security in the effective detection of existing evacuation routes, first-aid facilities and fire-fighting equipment even in the dark.

Depending on your requirements, you can choose from the following product categories:

Permalight® Plus products are suitable for use with low requirements for sufficient luminance and decay time.

Permalight® Power products meet the requirements of the ASR A1.3 and ASR A2.3 for safety signs and for the installation of long-lasting visual safety way guidance systems.

Possible areas of application:

- Installation on doors and walls indoors and outdoors
- Ceiling suspensions in production halls or canteens

4. Processing guidelines

The signs are suitable for adhesion on most smooth surfaces. Please make sure that the surface to be adhered is grease- (oil, wax, silicone) and dust-free. If necessary, clean with spirit or window cleaner. Adhere the label bubble-free and press on it well. Avoid application at temperatures below 10°C, as this may affect the adhesive strength.

5. Cleaning of signs

To clean the signs, we recommend using a damp cloth soaked in a water solution of mild, alkaline cleaning solution (such as detergent). The use of abrasive cleaning agents (such as scouring agents), alcohol and solvents is not recommended.

6. Storage instructions

Storage life of unopened original packaging 23 °C / 50 % relative humidity and out of sunlight amounts to 2 years. Mechanical damages and sharp kinking must be avoided. Noncompliance with storage instructions reduces product lifespan.

Important note: All products are subject to comprehensive quality control during the entire manufacturing process. We deliver all products in commercial quality and free from manufacturing defects. Information published on the products expressly does not constitute a guarantee of quality in the sense of § 443 BGB (German Civil Code). Due to the wide range of possible uses and the ongoing development of new applications, it is the responsibility of the user to carefully check the suitability and performance of the products for the respective purpose and before use. The buyer bears all risks arising from the use of the product. This applies in particular to obviously improper use. We reserve the right to make changes.

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