

## Type 1002 Permalight® Plus 55 Photoluminescent Plastic Label/Sign

### 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	<b>PERMALIGHT® Plus 55</b> Photoluminescent HPVC
Temperature resistance	- 20 °C bis + 70 °C
Shape retention	- 20 °C bis + 60 °C
Outdoor use durability	2 Years*
Indoor use durability	Almost limitless

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

<b>2.1 Durability for outdoor use:</b>	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 at least 2 years of outdoor use

#### 2.2 Technical data

Surface	30 – 35 GE / 20° DIN 67531
Thickness	0,9 – 1,3 mm

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 – Minutenwert)	Decay Time
<b>PERMALIGHT® plus 55</b>	55 mcd/m²	8 mcd/m²	Class B (50/7 mcd/m²)	900 min / 15 hrs

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

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#### 2.3 Wipe resistance

Wipe test based on DIN 30643

Isopropyl	✓
n-Heptane	✓
Artificial Sweat Solution	✓
Greases	✓

#### 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	✓

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### 3. Use and application

Our HPVC signs are specially designed for use in harsh industrial environments. They have an almost limitless indoor use and at least five years shelf life for protected outdoor applications. They offer a fast and practical possibility of permanent and individual identification. In addition, they have high durability, are weather resistant and resistant 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

We recommend gentle attachment that will not lead to material damage as a result of deformation or tearing. Non-self-adhesive products can be screwed on or fixed by means of mounting adhesives or adhesive films. In doubt, the compatibility of the substrate and signage should be tried and tested.

### 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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