# LS-EMLP-AL (27X18) BK - Device marker

0831590

https://www.phoenixcontact.com/us/products/0831590

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Device marker, Aluminum label, black (RAL 9005), unmarked, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, Number of individual labels: 35, text field height: 18 mm, text field width: 27 mm

## Your advantages

- Aluminum equipment marking for sticking on
- Identification made from metal, high strength in a lightweight design
- Increased durability due to the decoratively anodized surface

## Commercial data

| | |
|---|---|
| Item number | 0831590 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Sales key | BG19 |
| Product key | BG241D |
| GTIN | 4046356925419 |
| Weight per piece (including packing) | 77.67 g |
| Weight per piece (excluding packing) | 75.712 g |
| Customs tariff number | 76169990 |
| Country of origin | CN |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Device marker |

Marking

| | |
|---|---|
| Number of individual labels | 35 |
| Identification technology | Direct laser marking |

## Dimensions

| | |
|---|---|
| Width | 27.00 mm |
| Height | 17.60 mm |
| Depth | 1.05 mm |

Text field

| | |
|---|---|
| Text field width | 27 mm |
| Text field height | 18 mm |

## Material specifications

| | |
|---|---|
| Foil strength | 800 µm |
| Adhesive strength | 250 µm |
| Adhesive | Acrylic |
| Color | black (RAL 9005) |
| Material | Aluminum |
| Base element material | Aluminum |
| Components | free from silicone, halogen, and cadmium |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 125 °C |
| Recommended ambient temperature (storage/transport) | 23 °C |
| Recommended humidity (storage/transport) | 50 % (Storage in a dry and dark place in the original packaging is recommended) |

Test for substances that would hinder coating with paint or varnish

| | |
|---|---|
| Testing for paint wetting impairment substances (LABS-conformity) | VW PV 3.10.7:2005-02 |
| Result | Test passed |

Test for substances that would hinder coating with paint or varnish

| | |
|---|---|
| Testing for paint wetting impairment substances (LABS-conformity) | VDMA 24364-A1-L:2018-05 |
| Result | Test passed |

Scratch resistance

| | |
|---|---|
| Specification | EN ISO 1518-1:2023 (following) |

| | |
|---|---|
| Requirements | ≥ 5 N |
| Result | Test passed |

Tesafilm test

| | |
|---|---|
| Specification | DIN EN ISO 2409:2020-12 (following) |
| Result | Test passed |

UV resistance

| | |
|---|---|
| Specification | DIN EN ISO 4892-2:2021-11 (following) |
| Result | Test passed |
| Test duration | 96 h |
| Procedure | Artificial irradiation. |

Weathering-resistance

| | |
|---|---|
| Specification | DIN EN ISO 4892-2:2021-11 |
| Result | Test passed |
| Test duration | 1000 h |
| Procedure | A |

Temperature resistance

| | |
|---|---|
| Note | The information does not apply to the color fastness of the material. |
| Specification | ANSI/UL 969-2018:03 (following) |
| Test duration | 240 h |
| Rating 125 °C (150 °C) | Test passed |

Wipe resistance of inscriptions

| | |
|---|---|
| Specification | DIN EN 61010-1 (VDE 0411-01):2020-03 |
| | DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropanol (99%) [67-63-0] | Test passed |
| n-Hexane<br>[CAS No. 110-54-3] | Test passed |
| Water + Petroleum ether<br>[CAS No. 64742-82-1] | Test passed |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed |
| Ethanol (99 %)<br>[CAS No. 64-17-5] | Test passed |
| Acetone (99 %)<br>[CAS No. 67-64-1] | Test passed |

Immersion in chemicals, oil & fuel

| | |
|---|---|
| Specification | ISO 175:2010 (following) |
| Test duration | 168 h |
| Saltwater (saturated 350 g/l)<br>[CAS No. - ] | Test passed |
| Ethanol (99 %)<br>[CAS No. 64-17-5] | Test passed |

| | |
|---|---|
| Acetone (99 %)<br>[CAS No. 67-64-1] | Test passed |
| Methylethylketone (MEK)<br>[CAS No. 78-93-3] | Test passed |
| IRM 901 | Test passed |
| IRM 902 | Test passed |
| IRM 903 | Test passed |

Testing in a condensation changing climate in the presence of sulfur dioxide

| | |
|---|---|
| Specification | EN ISO 22479:2022-06 |
| Result | Test passed |
| Procedure | Method B |
| Cycles | 2 |

Salt spray test

| | |
|---|---|
| Specification | DIN EN IEC 60068-2-11 (VDE 0468-2-11):2022-10 |
| Result | Test passed |
| Test duration | 96 h |

High pressure test

| | |
|---|---|
| Specification | ISO 20653:2013-02 |
| Result | Test passed |
| IP-Code | IP X9K |

## Standards and regulations

| | |
|---|---|
| Wipe resistance | DIN EN 61010-1 (VDE 0411-1) |

## Mounting

| | |
|---|---|
| Mounting type | adhesive |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27281103 |
| ECLASS-15.0 | 27281103 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001288 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39131500 |

## Environmental product compliance

EU RoHS

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|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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