

# LS-EMLP-AL (85,6X54) BK - Device marker



0831594

<https://www.phoenixcontact.com/gb/products/0831594>

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Device marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, Number of individual labels: 6, text field height: 54 mm, text field width: 85.6 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                          | 0831594             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | BG241D              |
| Product key                          | BG241D              |
| Catalog page                         | Page 287 (C-3-2019) |
| GTIN                                 | 4046356925457       |
| Weight per piece (including packing) | 107.44 g            |
| Weight per piece (excluding packing) | 103.84 g            |
| Customs tariff number                | 76169990            |
| Country of origin                    | CN                  |

## Technical data

### Product properties

|              |                |
|--------------|----------------|
| Product type | Device marking |
| Type         | Laser sheet    |

### Marking

|                             |                      |
|-----------------------------|----------------------|
| Number of individual labels | 6                    |
| Identification technology   | Direct laser marking |

### Mounting

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

### Material specifications

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

### Environmental and real-life conditions

#### Test for substances that would hinder coating with paint or varnish

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

#### Test for substances that would hinder coating with paint or varnish

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

#### Scratch test for the determining 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                                  |

#### Weathering-resistance

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

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|           |   |
|-----------|---|
| 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<br>DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropyl<br>[CAS No. 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                                                                            |
| Specification                                     | ISO 175:2010 (following)                                                               |
| Test duration                                     | 168 h                                                                                  |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed                                                                            |
| Acetone (99 %)<br>[CAS No. 67-64-1]               | Test passed                                                                            |
| IRM 901                                           | Test passed                                                                            |
| IRM 902                                           | 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 60068-2-11:2000-02 |
| Result        | Test passed               |
| Test duration | 96 h                      |

## High pressure test

|               |                   |
|---------------|-------------------|
| Specification | ISO 20653:2013-02 |
| Result        | Test passed       |

## Ambient conditions

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|                                                     |                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -25 °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) |
| Shelf life                                          | 1 Year                                                                          |

## Dimensions

|                   |         |
|-------------------|---------|
| Width             | 85.6 mm |
| Length            | 54 mm   |
| Material strength | 0.80 mm |

## Text field

|                   |         |
|-------------------|---------|
| Text field width  | 85.6 mm |
| Text field height | 54 mm   |

## Standards and regulations

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27281103 |
| ECLASS-12.0 | 27281103 |
| ECLASS-13.0 | 27281103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001288 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

EU REACH SVHC

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

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