

# LS-EMP (37X18) WH - Device marker



1558020

<https://www.phoenixcontact.com/in/products/1558020>

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Device marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: insert, Number of individual labels: 36, text field height: 18 mm, text field width: 37 mm



## Your advantages

- Equipment marking for individual mounting without adhesive or predefined mounting holes
- Prefabricated device markers in the proven laser-sheet format for ideal positioning in the marking device
- Very high contrast due to the white top layer with black marking

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1558020       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Product key                          | BG241D        |
| GTIN                                 | 4067923038707 |
| Weight per piece (including packing) | 40.93 g       |
| Weight per piece (excluding packing) | 38.3 g        |
| Country of origin                    | DE            |

## Technical data

### Product properties

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

### Marking

|                             |                      |
|-----------------------------|----------------------|
| Number of individual labels | 36                   |
| Identification technology   | Direct laser marking |

### Mounting

|               |        |
|---------------|--------|
| Mounting type | insert |
|---------------|--------|

### Material specifications

|            |                                |
|------------|--------------------------------|
| Color      | white (RAL 9010)               |
| Material   | ABS                            |
| Components | free from silicone and halogen |

### Environmental and real-life conditions

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

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

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

#### Scratch test for the determining scratch resistance

|               |                                       |
|---------------|---------------------------------------|
| Specification | DIN EN ISO 1518-1:2019-10 (following) |
| Requirements  | ≥ 5 N                                 |
| Result        | Test passed                           |

#### Tesa film test

|               |                                  |
|---------------|----------------------------------|
| Specification | DIN EN ISO 2409:2013 (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 | 6000 h                    |
| Procedure     | A                         |

#### Temperature resistance

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|               |                                 |
|---------------|---------------------------------|
| Specification | ANSI/UL 969-2018:03 (following) |
| Test duration | 240 h                           |

## 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                                                                            |
| Specification                                     | ISO 175:2010 (following)                                                               |
| Test duration                                     | 168 h                                                                                  |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed                                                                            |
| Diesel<br>[CAS No. 68476-34-6]                    | Test passed                                                                            |
| IRM 901                                           | Test passed                                                                            |
| IRM 902                                           | Test passed                                                                            |

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

|               |                   |
|---------------|-------------------|
| Specification | ISO 22479:2019-05 |
| 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                      |

## Ambient conditions

|                                                     |                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -20 °C ... 60 °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             | 18 mm    |
| Text field width  | 37.00 mm |
| Text field height | 18.00 mm |
| Length            | 37 mm    |

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|                   |         |
|-------------------|---------|
| Material strength | 0.80 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 |
|----------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| 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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## Accessories

### TOPMARK NEO - Laser marker

1012015

<https://www.phoenixcontact.com/in/products/1012015>



Laser marking system for the efficient marking of metal or plastic marking material from the LS..., UCT..., UC.../PP..., UM... product families.

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### TMN-ADAPTER PLATE-LS - Adapter plate

1012104

<https://www.phoenixcontact.com/in/products/1012104>



Adapter plate for LS materials incl. 4 magnets for spot securing of lightweight marking materials

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## TMN-FRAME-LS - Holding plate

0803478

<https://www.phoenixcontact.com/in/products/0803478>

Retaining plate for circumferentially securing lightweight marking materials



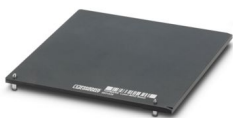
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## TOPMARK LASER-MAG SHEET - Magazine

0831836

<https://www.phoenixcontact.com/in/products/0831836>

Sheet magazine for TOPMARK LASER



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