

# EML-HA (40X8)R - Label for rough surfaces



0830604

<https://www.phoenixcontact.com/us/products/0830604>

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Label for rough surfaces, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 40 x 8 mm, Number of individual labels: 2500

## Your advantages

- The EML-HA ... self-adhesive device markers are suitable for identification of various types of equipment in controller, system, and control cabinet building
- The EML-HA features a special adhesive with a very high bonding strength. This means it can be stuck onto rough, textured, and low-energy surfaces
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences
- The EML-HA ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark all EML-HA ... markers according to your requirements

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 0830604             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BG16                |
| Product key                          | BG2411              |
| Catalog page                         | Page 334 (C-3-2019) |
| GTIN                                 | 4046356719582       |
| Weight per piece (including packing) | 300.8 g             |
| Weight per piece (excluding packing) | 300 g               |
| Customs tariff number                | 39269097            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                  |                 |
|------------------|-----------------|
| Product type     | Device marking  |
| Product property | highly adhesive |

### Marking

|                                     |                            |
|-------------------------------------|----------------------------|
| Number of individual labels         | 2500                       |
| Number of individual labels per row | 2                          |
| Identification technology           | Thermal transfer for rolls |

### Mounting

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

### Material specifications

|                |                                |
|----------------|--------------------------------|
| RoHS compliant | yes                            |
| Foil strength  | 50 µm                          |
| Color          | white                          |
| Material       | Polyester                      |
| 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 |
|--------|-------------|

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

|        |             |
|--------|-------------|
| 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                           |

#### Tesafilm test

|               |                                  |
|---------------|----------------------------------|
| Specification | DIN EN ISO 2409:2013 (following) |
| Result        | Test passed                      |

#### UV resistance

|               |                                |
|---------------|--------------------------------|
| Specification | ISO 4892-2:2013-03 (following) |
| Result        | Test passed                    |
| Test duration | 96 h                           |

#### Weathering-resistance

|               |                    |
|---------------|--------------------|
| Specification | ISO 4892-2:2013-03 |
| Result        | Test passed        |
| Test duration | 4500 h             |

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|           |   |
|-----------|---|
| Procedure | A |
|-----------|---|

## Outdoor exposure

|               |                               |
|---------------|-------------------------------|
| Specification | DIN EN ISO 877-2 (2011-03-00) |
| Result        | Test passed                   |
| Test duration | 9048 h                        |

## Temperature resistance

|                        |                                 |
|------------------------|---------------------------------|
| 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  |
| Specification                                     | ISO 175:2010 (following)   |
| Test duration                                     | 168 h  |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed  |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | 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 | DIN 50018:2013-05 |
| Result        | Test passed       |
| Climate level | AHT 1.0 S         |
| 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) | -40 °C ... 150 °C |
|---------------------------------|-------------------|

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|   |   |
|---|---|
| Ambient temperature (assembly)                      | > 15 °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  | 2 years   |

## Dimensions

|        |       |
|--------|-------|
| Width  | 40 mm |
| Length | 8 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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