

EML-HT (32X10)RL-T - High-temperature label



0830658

<https://www.phoenixcontact.com/us/products/0830658>

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High-temperature label, large roll, for thermal transfer printers, resistant for 60 s at up to 300°C

Your advantages

- The EML-HT label is made of an acrylate film that is highly temperature-resistant. It can be used for marking printed circuit boards and in all industrial soldering processes
- Continuous temperature range of -40 °C ... 180 °C, 300 °C for up to 60 seconds
- When combined with the ink ribbon THERMOMARK-RIBBON 110 EML-HT, the marking is highly resistant to high temperatures and chemicals
- The EML-HT ... materials are UL-listed
- Labeling service: Phoenix Contact can custom-label all EML-HT ... markers in accordance with your requirements

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 0830658 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BG16 |
| Product key | BG2411 |
| Catalog page | Page 335 (C-3-2019) |
| GTIN | 4046356719322 |
| Weight per piece (including packing) | 834 g |
| Weight per piece (excluding packing) | 708.7 g |
| Customs tariff number | 39269097 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|------------------|---------------------------------|
| Product type | Device marking |
| Product property | highly resistant to temperature |

Marking

| | |
|-------------------------------------|----------------------------|
| Number of individual labels | 10000 |
| Number of individual labels per row | 1 |
| Identification technology | Thermal transfer for rolls |

Mounting

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

Material specifications

| | |
|-------------------|--------------------------------|
| RoHS compliant | yes |
| Foil strength | 50 µm |
| Adhesive strength | 20 µm |
| Adhesive | Acrylic |
| Color | white |
| Material | Acrylate |
| 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 |
|--------|-------------|

Scratch test for the determining scratch resistance

| | |
|---------------|---------------------------------------|
| Specification | DIN EN ISO 1518-1:2019-10 (following) |
|---------------|---------------------------------------|

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 |

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 0411-1):2011-07 |
|---------------|-------------------------------------|

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| | |
|---|--|
| | DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropyl [CAS No. 67-63-0] | Test passed |
| n-Hexane [CAS No. 110-54-3] | Test passed |
| Water + Petroleum ether [CAS No. 64742-82-1] | Test passed |
| Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2] | Test passed |
| Ethanol (99 %) [CAS No. 64-17-5] | Test passed |
| Specification | ISO 175:2010 (following) |
| Test duration | 168 h |
| 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 (following) |
| 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 ... 180 °C |
| Ambient temperature (assembly) | > 4 °C |
| Short-term temperature | 300 °C (1 minute, maximum) |
| Recommended storage conditions | 23 °C / 50 % relative humidity. Storage in poly bags is recommended prior to processing. |
| Recommended ambient temperature (storage/transport) | 23 °C |
| Recommended humidity (storage/transport) | 50 % |
| Shelf life | 2 years |

Dimensions

| | |
|--------|-------|
| Width | 32 mm |
| Length | 10 mm |

Standards and regulations

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

Notes

| | |
|---------|--|
| General | For the THERMOMARK ROLL and THERMOMARK ROLL 2.0 roll printers, this material can only be processed with an external media hub. |
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Classifications

ECLASS

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

ETIM

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| ETIM 9.0 | EC001288 |
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UNSPSC

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| UNSPSC 21.0 | 39131500 |
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