



# tesa<sup>®</sup> 58394

## Product Information



tesa<sup>®</sup> 58394 125 µm thermal conductive tape

### Product Description

tesa<sup>®</sup> 58394 is a 125µm thermally conductive tape.

### Product Features

- This product is equipped with special acrylic adhesive that provide certain thermal conductivity when it applies between heat source and heat sink.
- It has good performance on polar substrates.

### Application Fields

Applied between heat source and heat sink to transfer the heat.

- Battery module cooling plate mounting
- Power electronics unit
- FPC and PCB

### Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

### Product Construction

- |                    |                 |                      |        |
|--------------------|-----------------|----------------------|--------|
| • Backing material | none            | • Colour             | white  |
| • Type of adhesive | acrylic         | • Colour of liner    | white  |
| • Type of liner    | PE-coated paper | • Thickness of liner | 127 µm |
| • Total thickness  | 125 µm          |                      |        |

### Product Assortment

- |                     |                    |                         |     |
|---------------------|--------------------|-------------------------|-----|
| • Available colors  | white              | • Available thicknesses | 125 |
| • Available formats | Log roll, A4 sheet |                         |     |

### Properties/Performance Values

- |                       |                       |  |               |
|-----------------------|-----------------------|--|---------------|
| • Breakdown voltage   | 4.1 KV                | • Temperature resistance (-40°C)             | very good     |
| • Density             | 1.8 g/cm <sup>3</sup> | • Temperature resistance (125°C)             | very good     |
| • Flame retardancy    | V2                    | • Temperature resistance short term duration | 200 °C        |
| • Hardness - Shore 00 | 60 STK                | • Thermal conductivity z-direction           | 0.6 W/mK      |
| • Release of liner    | easy                  | • Volume Resistance                          | 1000000000000 |
| • Surface resistance  | 1000000000000         |  | Ohm.cm        |
|                       | Ohm.cm                |  |               |

For latest information on this product please visit <http://l.tesa.com/?ip=58394>



# tesa<sup>®</sup> 58394

## Product Information

### Adhesion to Values

- Aluminium (20min @ RT, 90°) 2.2 N/cm
- Aluminium (after 3 days) 4.8 N/cm

### Storage Conditions

#### Storage Conditions

- Temperature: from +5 to +30 Degree Celsius
- Relative humidity: from 10% to 90%
- Precautions: protect for direct sun light, do not store outside
- Other storage advices: avoid mechanical impacts and short overheating

### Additional Information

The values in this section should be considered representative or typical only and should not be used for specification purposes.

### Disclaimer

tesa<sup>®</sup> products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa<sup>®</sup> product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



For latest information on this product please visit <http://l.tesa.com/?ip=58394>