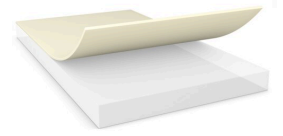




# tesa<sup>®</sup> 58394

## Product Information



tesa<sup>®</sup> 58394 125 µm / 4.9 mils thermal conductive tape

## Product Description

tesa<sup>®</sup> 58394 is a 125µm / 4.9 mils thermally conductive tape.

## Product Features

- This product is equipped with a special acrylic adhesive that provides certain thermal conductivity when it is applied between heat source and heat sink.
- It performs good 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          | none            | • Color              | white  |
| • Type of adhesive | acrylic         | • Color of liner     | white  |
| • Type of liner    | PE-coated paper | • Thickness of liner | 127 µm |
| • Total thickness  | 125 µm          |                      | 5 mils |
|                    | 4.9 mils        |                      |        |

## Product Assortment

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

## Properties/Performance Values

- |                       |                       |                                     |           |
|-----------------------|-----------------------|-------------------------------------|-----------|
| • Breakdown voltage   | 3.5 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 | 150 °C    |
| • Hardness - Shore 00 | 60 STK                |                                     | 302 °F    |
| • Release of liner    | easy                  | • Thermal conductivity z-direction  | 0.5 W/mK  |

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



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## Product Information

### Adhesion to Values

|                            |                        |                           |                      |
|----------------------------|------------------------|---------------------------|----------------------|
| • Aluminium (after 3 days) | 4.8 N/cm<br>43.9 oz/in | • Steel (20min @ RT, 90°) | 2 N/cm<br>18.3 oz/in |
| • Steel (initial)          | 2 N/cm<br>18.3 oz/in   |                           |                      |

## 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

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