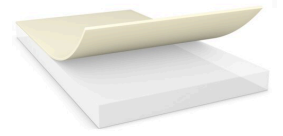




# tesa<sup>®</sup> 58394

## 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 |                         |     |



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## Product Information

### 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	200 °C 392 °F
• Hardness - Shore 00	60 STK	• Thermal conductivity z-direction	0.6 W/mK
• Release of liner	easy	• Volume Resistance	1000000000000 Ohm.cm
• Surface resistance	1000000000000 Ohm.cm		

### Adhesion to Values

• Aluminium (20min @ RT, 90°)	2.2 N/cm 20.1 oz/in	• Aluminium (after 3 days)	4.8 N/cm 43.9 oz/in
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## 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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For latest information on this product please visit <http://l.tesa.com/?ip=58394>