



# tesa® 58398

## Product Information



400 µm thermal conductive tape

## Product Description

tesa® 58398 is a 400µm thermally conductive tape.

## Product Features

- It 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          | none            | • Color              | white  |
| • Type of adhesive | acrylic         | • Color of liner     | white  |
| • Type of liner    | PE-coated paper | • Thickness of liner | 127 µm |
| • Total thickness  | 400 µm          |                      |        |

## Product Assortment

- |                     |                    |                         |     |
|---------------------|--------------------|-------------------------|-----|
| • Available colors  | white              | • Available thicknesses | 400 |
| • Available formats | Log roll, A4 sheet |                         |     |

## Properties/Performance Values

- |                       |                        |                                     |           |
|-----------------------|------------------------|-------------------------------------|-----------|
| • Breakdown voltage   | 6 KV                   | • Temperature resistance (-40°C)    | very good |
| • Density             | 1.65 g/cm <sup>3</sup> | • Temperature resistance (125°C)    | very good |
| • Flame retardancy    | V2                     | • Temperature resistance short term | 150 °C    |
| • Hardness - Shore 00 | 74 STK                 | • Thermal conductivity z-direction  | 0.65 W/mK |
| • Release of liner    | easy                   |                                     |           |



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### Adhesion to Values

- |                            |          |                           |        |
|----------------------------|----------|---------------------------|--------|
| • Aluminium (after 3 days) | 6.7 N/cm | • Steel (20min @ RT, 90°) | 3 N/cm |
| • Steel (initial)          | 3 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

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For latest information on this product please visit <http://l.tesa.com/?ip=58398>