



tesa[®] 58394

Product Information



tesa[®] 58394 125 µm / 4.9 mils thermal conductive tape

Product Description

tesa[®] 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

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



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Properties/Performance Values

• Breakdown voltage	4.1 KV	• Temperature resistance (-40°C)	very good
• Density	1.8 g/cm ³	• 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	0.7 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>