



# tesa<sup>®</sup> 58327

## Product Information



tesa<sup>®</sup> 58327

### Product Description

tesa<sup>®</sup> 58327 is a 1500 µm /59.1 mils thermally conductive pad. This acrylic based thermally conductive product provides high thermal conductivity with its thermally conductive fillers when it is applied between heat source and heat sink to transfer the heat. Besides that, it also has excellent electrical insulation property and flame retardancy.

### Application Fields

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

- EV battery between module and cooling system
- Power electronics between chips
- PCB and heat sink

### 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     | transparent |
| • Type of liner    | PET film             | • Thickness of liner | 75 µm       |
| • Total thickness  | 1500 µm<br>59.1 mils |                      | 3 mils      |

### Product Assortment

- |                     |                    |                         |      |
|---------------------|--------------------|-------------------------|------|
| • Available colors  | white              | • Available thicknesses | 1500 |
| • Available formats | Log roll, A4 sheet |                         |      |

### Properties/Performance Values

- |                       |                        |                                     |                  |
|-----------------------|------------------------|-------------------------------------|------------------|
| • Breakdown voltage   | 15 KV                  | • Temperature resistance (-40°C)    | very good        |
| • Density             | 1.81 g/cm <sup>3</sup> | • Temperature resistance (125°C)    | very good        |
| • Flame retardancy    | V0                     | • Temperature resistance short term | 150 °C<br>302 °F |
| • Hardness - Shore 00 | 85 STK                 | • Thermal conductivity z-direction  | 2 W/mK           |
| • Release of liner    | easy                   |                                     |                  |



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### Adhesion to Values

• Aluminium (initial)	0.63 N/cm 5.8 oz/in	• Steel (initial)	0.57 N/cm 5.2 oz/in
• Aluminium (20min @ RT, 90°)	0.63 N/cm 5.8 oz/in	• Steel (20min @ RT, 90°)	0.57 N/cm 5.2 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 as average figures or typical only and should not be used for specification purposes.

## Disclaimer

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