



tesa® 58327

Product Information



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Product Description

tesa® 58327 is a 1500 µm 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.

Product Features

- This product 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:

- 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 material | none | • Colour | white |
| • Type of adhesive | acrylic | • Colour of liner | transparent |
| • Type of liner | PET film | • Thickness of liner | 75 µm |
| • Total thickness | 1500 µm | | |

Product Assortment

- | | | | |
|---------------------|--------------------|-------------------------|------|
| • Available Colours | 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 ³ | • Temperature resistance (125°C) | very good |
| • Flame retardancy | V0 | • Temperature resistance short term duration | 150 °C |
| • Hardness - Shore 00 | 85 STK | • Thermal conductivity z-direction | 2 W/mK |
| • Release of liner | easy | | |

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Adhesion to Values

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

Disclaimer

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