



# tesa<sup>®</sup> 51407

## Product Information



Standard Grade Polyimide Tape 260°C / 500°F

### Product Description

tesa<sup>®</sup> 51407 is a standard grade polyimide tape with a silicone adhesive that has been specially developed to provide a solution for applications which require high temperature and chemical resistance.

tesa<sup>®</sup> 51407 is used for various applications, especially for wave soldering, thermal insulation and cable wrapping, as well as masking during powder-coating processes where the tape enables sharp color edges and offers excellent paint anchorage. The polyimide tape's silicone adhesive system makes the tape extremely heat-resistant, withstanding extreme temperatures of up to 260°C / 500°F in continuous applications. tesa<sup>®</sup> 51407 standard grade polyimide tape is also available in a liner version for die-cuts.

#### Benefits:

- High temperature resistance (up to 260°C / 500°F)
- High chemical resistance and dielectric strength
- Good conformability, thin backing for sharp paint lines
- Residue-free removability for masking applications

### Application Fields

- tesa<sup>®</sup> 51407 is recommended for high temperature masking, e.g. powder coating, galvanizing
- The standard grade polyimide tape can be used for chemical production processes and wave soldering, e.g. during circuit board assembly
- Suitable for masking of 3D printing beds or electrical and thermal insulation, e.g. wire or cable wrapping

### 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          | Polyimide | • Total thickness | 62 µm    |
| • Type of adhesive | silicone  |                   | 2.4 mils |

### Properties/Performance Values

- |                                |                        |                                   |                  |
|--------------------------------|------------------------|-----------------------------------|------------------|
| • Elongation at break          | 35 %                   | • Insulation class                | H                |
| • Tensile strength             | 40 N/cm<br>22.8 lbs/in | • Temperature resistance (30 min) | 260 °C<br>500 °F |
| • Dielectric breakdown voltage | 6000 V                 |                                   |                  |

For latest information on this product please visit <http://l.tesa.com/?ip=51407>



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### Adhesion to Values

- Steel 2.5 N/cm  
22.8 oz/in

### Disclaimer

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