



# tesa® 51407

## Product Information



### Standard Grade Polyimide Tape 260°C

#### Product Description

tesa® 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® 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 in continuous applications. tesa® 51407 standard grade polyimide tape is also available in a liner version for die-cuts.

#### Product Features

- High chemical resistance and dielectric strength
- Residue-free removability for masking applications
- Flame retardant according to UL510 and DIN EN 60454-2 (VDE 0340-2):2008-05, clause 20
- High temperature resistance (up to 260°C)

#### Application Fields

- tesa® 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  |                   |       |

#### Properties/Performance Values

- |                                |         |                                   |        |
|--------------------------------|---------|-----------------------------------|--------|
| • Elongation at break          | 35 %    | • Insulation class                | H      |
| • Tensile strength             | 40 N/cm | • Temperature resistance (30 min) | 260 °C |
| • Dielectric breakdown voltage | 6000 V  |                                   |        |

#### Adhesion to Values

- |         |          |
|---------|----------|
| • Steel | 2.5 N/cm |
|---------|----------|

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