



tesa® 51407

Product Information



Standard grade polyimide tape

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.

Benefits:

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

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 material | 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 | 260 °C |
| • Dielectric breakdown voltage | 6000 V | | |

Adhesion to Values

- | | |
|---------|----------|
| • steel | 2.5 N/cm |
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