



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 colour 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

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

- High temperature masking, e.g. powder coating, galvanizing
- Chemical production processes
- Wave soldering, e.g. during circuit board assembly
- Electrical and thermal insulation, e.g. wire-or cable-wrapping
- Masking of 3D printing beds

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 | | |

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Product Information

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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