



tesa[®] 51407

Product Information



Standard Grade Polyimide Tape 260°C / 500°F

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 / 500°F 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 / 500°F)
- 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

- 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 | | 2.4 mils |

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Product Information

Properties/Performance Values

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

Adhesion to Values

- | | |
|---------|------------------------|
| • Steel | 2.5 N/cm
22.8 oz/in |
|---------|------------------------|

Disclaimer

tesa[®] products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



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