

Product Information

Premium Grade Polyimide Tape

tesa® 51408 is a premium 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® 51408 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 provides a high peel adhesion on various surfaces and makes the tape extremely heat-resistant, withstanding extreme temperatures of up to 260°C in continuous applications.

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

Main Application

- 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.

Technical Data

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|-----------------------|-----------|--------------------------------|-----------|
| • Backing material | polyimide | • Tensile strength | 46 N/cm |
| • Total thickness | 65 µm | • Temperature resistance | 260 °C |
| • Type of adhesive | silicone | • Dielectric breakdown voltage | 6000 volt |
| • Elongation at break | 70 % | | |

Adhesion to

- steel 2.8 N/cm

Properties

- Insulation class H

tesa® 51408

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