

# tesa® 4950

## Product Information



100µm LSE double-sided transparent PET film tape

### Product Description

tesa® 4950 is a high-performance, double-sided transparent PET film tape designed for reliable bonding on low surface energy (LSE) substrates. With a total thickness of 100µm (3.9 mils) and a 12µm (0.47 mils) PET backing made from 90% post-consumer recycled content, it combines sustainability with technical excellence. The tackified acrylic adhesive ensures strong initial tack and superior shear strength, even under demanding environmental conditions.

### Sustainable Aspects

- 90% PCR PET in the backing
- Responsibly sourced paper liner (certified)



For more information: <https://www.tesa.com/product-sustainability>

### Product Features

- LSE-Optimized Adhesion: Bonds reliably to PP, PE, and EPDM—no primer needed.
- High Shear Strength: Holds strong under stress and heat for long-term durability.
- Dimensional Stability: PET backing ensures clean handling and precise die-cuts.
- Thermal Resistance: Withstands short-term exposure up to 200°C.
- Low VOC: Tested to VDA 278 for cleaner indoor air.
- UL Certification: In accordance with UL standard 969. UL file: MH 18055.

### Application Fields

- Versatile bonding solution for a wide range of demanding industrial applications.
- Enables primerless adhesion to low surface energy (LSE) substrates such as PP, PE, and EPDM.
- Ideal for long-term mounting on hard-to-bond materials, including gaskets and molded components.
- For industrial assembly where clean aesthetics, dimensional stability, and transparent bonding are critical.

# tesa® 4950

## Product Information

### 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                                               | Post consumer recycled PET | • Color              | transparent                     |
| • Bio-based carbon content of liner (acc. DIN EN 16640) | 90 %                       | • Color of liner     | brown/blue logo                 |
| • Type of adhesive                                      | tackified acrylic          | • Thickness of liner | 69 µm                           |
| • Total thickness                                       | 100 µm<br>3.9 mils         | • Weight of liner    | 2.7 mils<br>80 g/m <sup>2</sup> |

### Properties/Performance Values

|                                   |                        |                                     |                  |
|-----------------------------------|------------------------|-------------------------------------|------------------|
| • Elongation at break             | 50 %                   | • Static shear resistance at 40°C   | very good        |
| • Tensile strength                | 20 N/cm<br>11.4 lbs/in | • Static shear resistance at 70°C   | very good        |
| • Ageing resistance (UV)          | good                   | • Tack                              | very good        |
| • Chemical Resistance             | good                   | • Temperature resistance long term  | 100 °C<br>212 °F |
| • Humidity resistance             | very good              | • Temperature resistance min.       | -40 °C<br>-40 °F |
| • Softener resistance             | very good              | • Temperature resistance short term | 200 °C<br>392 °F |
| • Static shear resistance at 23°C | very good              |                                     |                  |

### Adhesion to Values

|                |                      |                   |                        |
|----------------|----------------------|-------------------|------------------------|
| • PC (initial) | 7 N/cm<br>64 oz/in   | • PP (initial)    | 6.6 N/cm<br>60.3 oz/in |
| • PE (initial) | 5 N/cm<br>45.7 oz/in | • Steel (initial) | 7.5 N/cm<br>68.5 oz/in |

### Additional Information

Liner variants:

- PV04: white PE-coated liner (126µm; 126 g/m<sup>2</sup>)
- PV20: branded brown glassine paper (69µm; 80g/m<sup>2</sup>)

Low VOC – measured according to VDA 278 analysis, tesa® 4950 does not contain any single substances restricted by the drafted GB regulations (China).

# tesa® 4950

## Product Information

### 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.



For latest information on this product please visit <http://l.tesa.com/?ip=4950>