



# tesa® 4959

## Product Information



100 µm double sided translucent premium non woven tape

### Product Description

tesa® 4959 is a double-sided non-woven industrial mounting and splicing tape with a highly tackified acrylic adhesive. The premium non-woven tape is, for instance, used for mounting signs and nameplates or other mounting and high-performance lamination applications. tesa® 4959 is especially designed to connect flexible materials to one another. The mounting and splicing tape is able to withstand numerous environmental factors such as humidity, UV light, and temperatures of up to 200°C for limited periods of time. The tackified acrylic adhesive offers excellent hold on various surfaces, very high tack, and good shear strength. The adhesive is coated on a flexible and conformable cellulose non-woven backing that even conforms to difficult 3D shapes.

tesa® 4959 is also available in a 160 µm version (tesa® 4962).

### Sustainable Aspects

tesa® More Sustainable Paper Liner:

- Responsibly sourced paper liner (certified)
- Unbleached paper with 30% recycled fibers



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

### Product Features

- High initial tack and peel adhesion
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Light and aging-resistant acrylic adhesive for long-term applications
- Very good bonding strength, even to low surface energy materials
- Outstanding converting and die-cutting properties
- Highly conformable to follow difficult 3D shapes due to non-woven backing

### Application Fields

- tesa® 4959 is ideally used for industrial mounting, high-performance lamination, and splicing applications
- Mounting signs, covers and nameplates
- Laminating insulation materials and foams for HVAC (heating, ventilation, and air conditioning) seals
- Mounting plastic bags, dispatch bags, continuous stationery, posters, etc.
- Splicing of paper and film webs

For latest information on this product please visit <http://l.tesa.com/?ip=04959>



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### 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          | non-woven         | • Color              | translucent |
| • Type of adhesive | tackified acrylic | • Color of liner     | brown       |
| • Type of liner    | paper             | • Thickness of liner | 71 µm       |
| • Total thickness  | 100 µm            |                      |             |

### Properties/Performance Values

|                                   |           |                                     |           |
|-----------------------------------|-----------|-------------------------------------|-----------|
| • Elongation at break             | 2 %       | • Static shear resistance at 40°C   | medium    |
| • Tensile strength                | 8 N/cm    | • Tack                              | very good |
| • Ageing resistance (UV)          | very good | • Temperature resistance long term  | 80 °C     |
| • Chemical Resistance             | good      | • Temperature resistance min.       | -40 °C    |
| • Humidity resistance             | very good | • Temperature resistance short term | 200 °C    |
| • Static shear resistance at 23°C | good      |                                     |           |

### Adhesion to Values

|                             |          |                         |          |
|-----------------------------|----------|-------------------------|----------|
| • ABS (initial)             | 7.5 N/cm | • PET (after 14 days)   | 7.5 N/cm |
| • ABS (after 14 days)       | 9 N/cm   | • PP (initial)          | 5.5 N/cm |
| • Aluminium (initial)       | 7.5 N/cm | • PP (after 14 days)    | 6.5 N/cm |
| • Aluminium (after 14 days) | 8 N/cm   | • PS (initial)          | 8.5 N/cm |
| • PC (initial)              | 9.5 N/cm | • PS (after 14 days)    | 9 N/cm   |
| • PC (after 14 days)        | 14 N/cm  | • PVC (initial)         | 6.5 N/cm |
| • PE (initial)              | 4 N/cm   | • PVC (after 14 days)   | 14 N/cm  |
| • PE (after 14 days)        | 4.5 N/cm | • Steel (initial)       | 8 N/cm   |
| • PET (initial)             | 7 N/cm   | • Steel (after 14 days) | 8.5 N/cm |

### Additional Information

Liner variants:

- PV0: brown glassine paper (69µm; 80g/m<sup>2</sup>)
- PV6: red MOPP film (80µm; 72g/m<sup>2</sup>)
- PV36 double liner: brown glassine paper (69µm; 80g/m<sup>2</sup>)
- Sustainability Marker valid for paper liner version

For spools, it is recommended to use tesa® dispensers to achieve optimal results.

According to VDA278 analysis, tesa® 4959 does not contain any single substances restricted by the drafted GB regulations (China) as well as the indoor concentration guideline by Health, Labour and Welfare Ministry (Japan).

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### 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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