

# tesa® 4953

## Product Information



100µm double-sided transparent PET film tape

### Product Description

tesa® 4953 – Team 4965 Thin 100µm is a transparent, double-sided industrial mounting tape consisting of a PET backing and a tackified acrylic adhesive. The double-sided mounting tape is the 100µm thin version of tesa® 4965 Original and its adhesive is based on a patented and protected product technology. tesa® 4953 – Team 4965 Thin 100µm is used in various different industries, frequently for bonding components within electronic devices. The double-sided industrial mounting 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, high tack, and good shear strength.

Several products are equipped with this unique and high-performing product design. Together, these products make up Team 4965. This double-sided film tape assortment helps to easily select the most efficient tape based on customer demands, products, and processes. Explore the benefits of the full tesa® 4965 assortment here:

<https://www.tesa.com/en/industry/general-applications/mounting/team-4965-assortment>

### Product Features

- In accordance with UL standard 969
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Reliable bond, often also on low surface energy surfaces
- Immediate usability right after assembly
- Low VOC – measured according to VDA 278 analysis

### Application Fields

- tesa® 4953 – Team 4965 Thin 100µm is used in different industries
- Frequently used for bonding components within electronic devices
- Various industrial long-term mounting applications

### 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 | PET               | • Colour             | transparent         |
| • Type of adhesive | tackified acrylic | • Colour of liner    | brown/blue logo     |
| • Type of liner    | glassine          | • Thickness of liner | 69 µm               |
| • Total thickness  | 100 µm            | • Weight of liner    | 80 g/m <sup>2</sup> |

For latest information on this product please visit <http://l.tesa.com/?ip=4953>

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## Product Information

### Properties/Performance Values

|                                  |           |                                              |           |
|----------------------------------|-----------|----------------------------------------------|-----------|
| • Elongation at break            | 50 %      | • Softener resistance                        | good      |
| • Tensile strength               | 20 N/cm   | • Static shear resistance at 23°C            | very good |
| • Ageing resistance (UV)         | good      | • Static shear resistance at 40°C            | very good |
| • Chemical resistance            | good      | • Tack                                       | good      |
| • Humidity resistance            | very good | • Temperature resistance long term duration  | 100 °C    |
| • Minimum temperature resistance | -40 °C    | • Temperature resistance short term duration | 200 °C    |

### Adhesion to Values

|                             |           |                         |           |
|-----------------------------|-----------|-------------------------|-----------|
| • ABS (initial)             | 7.6 N/cm  | • PET (after 14 days)   | 8.4 N/cm  |
| • ABS (after 14 days)       | 9.6 N/cm  | • PP (initial)          | 4.4 N/cm  |
| • Aluminium (initial)       | 7.9 N/cm  | • PP (after 14 days)    | 6.2 N/cm  |
| • Aluminium (after 14 days) | 10.6 N/cm | • PS (initial)          | 8.3 N/cm  |
| • PC (initial)              | 9.2 N/cm  | • PS (after 14 days)    | 9.2 N/cm  |
| • PC (after 14 days)        | 11 N/cm   | • PVC (initial)         | 7 N/cm    |
| • PE (initial)              | 4.6 N/cm  | • PVC (after 14 days)   | 10 N/cm   |
| • PE (after 14 days)        | 5.1 N/cm  | • Steel (initial)       | 11 N/cm   |
| • PET (initial)             | 7 N/cm    | • Steel (after 14 days) | 11.7 N/cm |

### Additional Information

Liner variants:

- PV20: branded brown glassine paper (69µm; 80g/m<sup>2</sup>)

Low VOC – measured according to VDA 278 analysis, tesa® 4953 does not contain any single substances restricted by the drafted GB regulations (China).

### 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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