



# tesa<sup>®</sup> 49652

## - Team 4965 High Transparency



### Product Information

205µm double sided transparent film tape  
Also referred to as order number tesa<sup>®</sup> 49652

### Product Description

tesa<sup>®</sup> 4965 High Transparency is based on a patented and protected product formulation. Several products are equipped with this unique and high performing product design and 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. tesa<sup>®</sup> 4965 High Transparency can be ordered using order number tesa<sup>®</sup> 49652. Explore the benefits of the full tesa<sup>®</sup> 4965 assortment here: <https://www.tesa.com/en/industry/general-applications/mounting/team-4965-assortment>

tesa<sup>®</sup> 4965 High Transparency features:

- Has a double liner which provides improved product stability
- Suitability for critical demands such as heavy stress and high temperatures
- Withstands chemical components

### Product Features

- tesa<sup>®</sup> 4965 Original Next Gen with double liner for improving transparency and product stability
- Reliable bond, often also on low surface energy surfaces
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Immediate usability right after assembly
- Low VOC – measured according to VDA 278 analysis
- Outstanding converting and die-cutting properties

### Application Fields

Across many industries tesa<sup>®</sup> 4965 High Transparency is used to improve processes and applications especially those requiring visual inspection or a crystal-clear bond. Key applications include:

- Glass to glass bonding
- Lamination of different card layers
- Microplate sealing
- Personal protection & medical equipment manufacturing



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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 material | PET film          | • Total thickness | 205 µm      |
| • Type of adhesive | tackified acrylic | • Colour          | transparent |

### Properties/Performance Values

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

### Adhesion to Values

|                             |           |                         |           |
|-----------------------------|-----------|-------------------------|-----------|
| • ABS (initial)             | 10.3 N/cm | • PET (after 14 days)   | 9.5 N/cm  |
| • ABS (after 14 days)       | 12 N/cm   | • PP (initial)          | 6.8 N/cm  |
| • Aluminium (initial)       | 9.2 N/cm  | • PP (after 14 days)    | 7.9 N/cm  |
| • Aluminium (after 14 days) | 10.6 N/cm | • PS (initial)          | 10.6 N/cm |
| • PC (initial)              | 12.6 N/cm | • PS (after 14 days)    | 12 N/cm   |
| • PC (after 14 days)        | 14 N/cm   | • PVC (initial)         | 8.7 N/cm  |
| • PE (initial)              | 5.8 N/cm  | • PVC (after 14 days)   | 13 N/cm   |
| • PE (after 14 days)        | 6.9 N/cm  | • Steel (initial)       | 11.5 N/cm |
| • PET (initial)             | 9.2 N/cm  | • Steel (after 14 days) | 11.8 N/cm |

### Additional Information

Liner variants:

PV37 double liner: 36µm PET (36µm; 80g/m<sup>2</sup>) and brown glassine paper (69µm; 80g/m<sup>2</sup>)



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### Disclaimer

tesa<sup>®</sup> 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<sup>®</sup> 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=49652>