

tesa® 49652

- Team 4965 High Transparency



Product Information

205µm double sided transparent PET film tape with double liner

Product Description

tesa® 49652 – Team 4965 High Transparency is a highly transparent, double-sided industrial mounting tape produced with a biomass balanced adhesive and a 90% PCR PET backing. The double-sided mounting tape is the highly transparent version of tesa® 4965 Original Next Gen and its adhesive is based on a patented and protected product technology. Across many industries tesa® 49652 – Team 4965 High Transparency is used to improve processes and applications, especially those requiring visual inspection or a crystal-clear bond. 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 biomass-balanced 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>

Sustainable Aspects

- Biomass balanced tackified acrylic adhesive
- 90% PCR PET in the backing



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

Product Features

- tesa® 4965 Original Next Gen with double liner for improved 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

- tesa® 49652 – Team 4965 High Transparency is used for processes requiring visual inspection or a crystal-clear bond
- Glass to glass bonding
- Laminating different card layers
- Microplate sealing

For latest information on this product please visit <http://l.tesa.com/?ip=49652>

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Application Fields

- Personal protection and medical equipment manufacture

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 | PET film | • Total thickness | 205 µm |
| • Type of adhesive | tackified acrylic | • Color | 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 | 100 °C |
| • Humidity resistance | very good | • Temperature resistance min. | -40 °C |
| • Softener resistance | good | • Temperature resistance short term | 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: PET (36µm; 50g/m²) and brown paper (69µm; 80g/m²)

Low VOC – measured according to VDA 278 analysis, tesa® 49652 – Team 4965 High Transparency does not contain any single substances restricted by the drafted GB regulations (China).

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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.



For latest information on this product please visit <http://l.tesa.com/?ip=49652>