



tesa® 59652

Product Information



205µm double sided black film tape - order number tesa® 59652

Product Description

tesa® 4965 Black is a double-sided self-adhesive tape consisting of a black PET backing and a modified acrylic adhesive and 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® 4965 Black can be ordered using order number tesa® 59652. Explore the benefits of the full tesa® 4965 assortment here: <https://www.tesa.com/en-sg/industry/general-applications/mounting/team-4965-assortment>

tesa® 4965 Black features:

- An excellent balance of high shear resistance, adhesion performance and initial tack
- Secure bond even to critical surfaces such as low surface energy materials (e.g. PP and PE) and powder painted substrates
- Outstanding holding power
- Black color to optimize automatic pick and place processes

Application Fields

- LED strip mounting
- Optical detection splicing
- Mounting of lenses and cushioning foams in cellular phones
- Mounting of exterior car mirrors in the automotive industry

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 | • Color | black |
| • Type of adhesive | tackified acrylic | • Color of liner | brown/blue logo |
| • Type of liner | paper | • Thickness of liner | 69 µm |
| • Total thickness | 205 µm | • Weight of liner | 80 g/m ² |



tesa® 59652

Product Information

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) | 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) | 10.8 N/cm | • PET (after 14 days) | 11.9 N/cm |
| • ABS (after 14 days) | 11.9 N/cm | • PP (after 14 days) | 8.8 N/cm |
| • Aluminium (initial) | 10.2 N/cm | • PP (covered side, initial) | 6 N/cm |
| • Aluminium (after 14 days) | 12.6 N/cm | • PS (initial) | 10.4 N/cm |
| • PC (initial) | 12.2 N/cm | • PS (after 14 days) | 12.1 N/cm |
| • PC (after 14 days) | 13.4 N/cm | • PVC (initial) | 9.6 N/cm |
| • PE (initial) | 5.6 N/cm | • PVC (after 14 days) | 12.8 N/cm |
| • PE (after 14 days) | 6.6 N/cm | • Steel (initial) | 11.5 N/cm |
| • PET (initial) | 9.8 N/cm | • Steel (after 14 days) | 14 N/cm |

Additional Information

Liner variants:

PV20: branded brown paper liner (69µm; 80g/m²)

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=59652>