



tesa[®] 51965

Product Information

Black double-sided high temperature shear resistant filmic tape

Product Description

tesa[®] 51965 is a double-sided self-adhesive tape consisting of a black PET backing and a modified acrylic adhesive .

tesa[®] 51965 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 colour to optimise automatic pick and place processes

Product Features

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Application Fields

- Mounting of lenses and cushioning foams in mobile 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 material | PET film | • Total thickness | 205 µm |
| • Type of adhesive | tackified acrylic | • Colour | black |

Properties/Performance Values

- | | | | |
|--------------------------|--------------|--|--------------|
| • Elongation at break | 50 % | • Static shear resistance at 23°C | good, medium |
| • Tensile strength | 30 N/cm | • Static shear resistance at 40°C | good, medium |
| • Ageing resistance (UV) | very good | • Tack | good, medium |
| • Humidity resistance | very good | • Temperature resistance long term duration | 100 °C |
| • Softener resistance | good, medium | • Temperature resistance short term duration | 200 °C |

For latest information on this product please visit <http://l.tesa.com/?ip=51965>



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Product Information

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 (initial)	6 N/cm
• Aluminium (initial)	10.2 N/cm	• PP (after 14 days)	8.8 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:

PV0 brown glassine paper (71µm; 82g/m²)

PV4 white with blue tesa[®] logo PE-coated paper (122µm; 120g/m²)

PV6 red MOPP-film (80µm; 72g/m²)

PV7 transparent PET-film (50µm; 72g/m²)

PV11 white PET-film (50µm; 72g/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.



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