



# tesa<sup>®</sup> 51983

## Product Information

Black double-sided ultrathin tape

### Product Description

tesa<sup>®</sup> 51983 is a double-sided self-adhesive tape consisting of a black PET backing and a tackified acrylic adhesive.

tesa<sup>®</sup> 51983 features:

- Lowest possible thickness of 30µm
- Good adhesion level relative to low thickness to smooth surfaces
- Excellent resistance to demanding environmental conditions
- Excellent handling performance in converting processes

### Product Features

- Thickness: 30µm
- Good adhesion level
- Excellent resistance to demanding environmental conditions
- Excellent handling performance in converting processes

### Application Fields

- Laminating of cushioning materials to LCDs
- Fixing of reflection foil to LCD frame
- Splicing of thin plastic films

### 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 | 30 µm             |
| • Type of adhesive | tackified acrylic | • Color           | 1.2 mils<br>black |

### Properties/Performance Values

- |                          |                        |                                     |                  |
|--------------------------|------------------------|-------------------------------------|------------------|
| • Elongation at break    | 50 %                   | • Static shear resistance at 23°C   | good             |
| • Tensile strength       | 20 N/cm<br>11.4 lbs/in | • Static shear resistance at 40°C   | good             |
| • Ageing resistance (UV) | very good              | • Tack                              | low              |
| • Chemical Resistance    | good                   | • Temperature resistance long term  | 100 °C<br>212 °F |
| • Humidity resistance    | very good              | • Temperature resistance short term | 200 °C<br>392 °F |
| • Softener resistance    | good                   |                                     |                  |

For latest information on this product please visit <http://l.tesa.com/?ip=51983>



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### Adhesion to Values

• ABS (initial)	4.5 N/cm 41.1 oz/in	• PET (after 14 days)	4.8 N/cm 43.9 oz/in
• ABS (after 14 days)	5.3 N/cm 48.4 oz/in	• PP (initial)	2.3 N/cm 21 oz/in
• Aluminium (initial)	4.1 N/cm 37.5 oz/in	• PP (after 14 days)	3.7 N/cm 33.8 oz/in
• Aluminium (after 14 days)	5.5 N/cm 50.2 oz/in	• PS (initial)	4 N/cm 36.5 oz/in
• PC (initial)	5.2 N/cm 47.5 oz/in	• PS (after 14 days)	5.2 N/cm 47.5 oz/in
• PC (after 14 days)	6 N/cm 54.8 oz/in	• PVC (initial)	3.6 N/cm 32.9 oz/in
• PE (initial)	2 N/cm 18.3 oz/in	• PVC (after 14 days)	6.4 N/cm 58.5 oz/in
• PE (after 14 days)	3.3 N/cm 30.1 oz/in	• Steel (initial)	5.2 N/cm 47.5 oz/in
• PET (initial)	4.2 N/cm 38.4 oz/in	• Steel (after 14 days)	7.6 N/cm 69.4 oz/in

### Additional Information

Liner variants:

PVO brown glassine paper (71µm; 82g/m<sup>2</sup>)

### 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.



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