

# tesa® 51982

# **Product Information**



# 100µm double sided black filmic tape

# **Product Description**

tesa® 51982 is a double-sided self-adhesive tape consisting of a black PET backing and a tackified acrylic adhesive.

#### **Product Features**

- Excellent bonding strength/thickness ratio
- Good bonding strength to most common, smooth, even substrates
- · Reliable adhesion in high temperature applications

#### **Application Fields**

- Mounting of backlight to LCD panel
- · Mounting of LCD panel to metal frame
- · Battery pack mounting

# 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 | 100 μm |
|---|------------------|-------------------|---|-----------------|--------|
| • | Type of adhesive | tackified acrylic | • | Color           | black  |

#### **Properties/Performance Values**

| <ul> <li>Elongation at break</li> <li>Tensile strength</li> <li>Ageing resistance (UV)</li> <li>Chemical Resistance</li> <li>Humidity resistance</li> </ul> | 50 % 20 N/cm very good good very good | <ul> <li>Static shear resistance at 23°C</li> <li>Static shear resistance at 40°C</li> <li>Tack</li> <li>Temperature resistance long term</li> </ul> | good<br>good<br>medium<br>100°C |
|---|---------------------------------------|--|---------------------------------|
| Softener resistance   | good                                  | Temperature resistance short term  | 200 °C                          |



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#### Adhesion to Values

| • | ABS (initial)             | 7.6 N/cm  | • | PET (after 14 days)   | 8.4 N/cm  |
|---|---------------------------|-----------|---|-----------------------|-----------|
| • | ABS (after 14 days)       | 9.6 N/cm  | • | PP (initial)          | 4.4 N/cm  |
| • | Aluminium (initial)       | 7.9 N/cm  | • | PP (after 14 days)    | 6.2 N/cm  |
| • | Aluminium (after 14 days) | 10.6 N/cm | • | PS (initial)          | 8.3 N/cm  |
| • | PC (initial)              | 9.2 N/cm  | • | PS (after 14 days)    | 9.2 N/cm  |
| • | PC (after 14 days)        | 11 N/cm   | • | PVC (initial)         | 7 N/cm    |
| • | PE (initial)              | 4.6 N/cm  | • | PVC (after 14 days)   | 10 N/cm   |
| • | PE (after 14 days)        | 5.1 N/cm  | • | Steel (initial)       | 11 N/cm   |
| • | PET (initial)             | 7 N/cm    | • | Steel (after 14 days) | 11.7 N/cm |

#### Disclaimer

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