



# tesa<sup>®</sup> 7180

## Product Information

80µm single-sided solid black filmic tape

### Product Description

tesa<sup>®</sup> 7180 is a solid black, single-sided self-adhesive tape consisting of a black PET film backing and a tackified acrylic adhesive

### Product Features

- Thickness: 80µm
- Excellent light blocking performance
- Very high peel strength and shear resistance
- Very good repulsion resistance properties
- Very good handling performance in converting processes
- Excellent resistance to demanding environmental conditions
- Very high dielectric breakdown strength

### Application Fields

- Back Light Unit cell wrapping in displays
- Light blocking in electronic devices
- Fixing of cables or constructive parts in LED light sources or Flat Panel displays

### 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    | 80 µm       |
| • Type of adhesive | acrylic  | • Color of liner     | transparent |
| • Type of liner    | PET      | • Thickness of liner | 50 µm       |

### Properties/Performance Values

- |                                |           |                                     |           |
|--------------------------------|-----------|-------------------------------------|-----------|
| • Elongation at break          | 80 %      | • Static shear resistance at 40°C   | very good |
| • Tensile strength             | 30 N/cm   | • Tack                              | good      |
| • Ageing resistance (UV)       | very good | • Temperature resistance long term  | 80 °C     |
| • Dielectric breakdown voltage | 7500 V    | • Temperature resistance short term | 140 °C    |
| • Humidity resistance          | good      | • Transmittance (380 - 780nm) <     | 0.04 %    |
| • Softener resistance          | good      |                                     |           |



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### Adhesion to Values

• ABS (initial)	6.2 N/cm	• Glass (after 14 days)	6.6 N/cm
• ABS (after 14 days)	7 N/cm	• PC (initial)	6.3 N/cm
• Aluminium (initial)	5.4 N/cm	• PC (after 14 days)	7 N/cm
• Aluminium (after 14 days)	7.5 N/cm	• Steel (initial)	6.3 N/cm
• Glass (initial)	6.4 N/cm	• Steel (after 14 days)	7.9 N/cm

### Disclaimer

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