



tesa® 7180

Product Information

80µm single-sided solid black filmic tape

Product Description

tesa® 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 | • Thickness of liner | 50 µm |
| • Type of liner | PET | | |

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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