



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.

tesa[®] 7180 features esp.

- * 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

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
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- 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



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Product Information

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 | | |

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 |

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