



tesa® 51965

Product Information

205µm/8.1 mils double sided black filmic tape

Product Description

tesa® 51965 is a double-sided self-adhesive tape consisting of a black PET backing and a modified acrylic adhesive .

Product Features

- An excellent balance of high shear resistance, adhesion performance and initial tack
- Secure bond even to critical surfaces such as low surface energy materials (e.g. PP and PE) and powder painted substrates
- Outstanding holding power
- Black color to optimize automatic pick and place processes

Application Fields

- Mounting of lenses and cushioning foams in cellular phones
- Mounting of exterior car mirrors in the automotive industry

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 | 205 µm |
| • Type of adhesive | tackified acrylic | • Color | 8.1 mils
black |

Properties/Performance Values

- | | | | |
|--------------------------|------------------------|-------------------------------------|------------------|
| • Elongation at break | 50 % | • Static shear resistance at 23°C | good, medium |
| • Tensile strength | 30 N/cm
17.1 lbs/in | • Static shear resistance at 40°C | good, medium |
| • Ageing resistance (UV) | very good | • Tack | good, medium |
| • Humidity resistance | very good | • Temperature resistance long term | 100 °C
212 °F |
| • Softener resistance | good, medium | • Temperature resistance short term | 200 °C
392 °F |



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Product Information

Adhesion to Values

• ABS (initial)	10.8 N/cm 98.7 oz/in	• PET (after 14 days)	11.9 N/cm 108.7 oz/in
• ABS (after 14 days)	11.9 N/cm 108.7 oz/in	• PP (initial)	6 N/cm 54.8 oz/in
• Aluminium (initial)	10.2 N/cm 93.2 oz/in	• PP (after 14 days)	8.8 N/cm 80.4 oz/in
• Aluminium (after 14 days)	12.6 N/cm 115.1 oz/in	• PS (initial)	10.4 N/cm 95 oz/in
• PC (initial)	12.2 N/cm 111.5 oz/in	• PS (after 14 days)	12.1 N/cm 110.5 oz/in
• PC (after 14 days)	13.4 N/cm 122.4 oz/in	• PVC (initial)	9.6 N/cm 87.7 oz/in
• PE (initial)	5.6 N/cm 51.2 oz/in	• PVC (after 14 days)	12.8 N/cm 116.9 oz/in
• PE (after 14 days)	6.6 N/cm 60.3 oz/in	• Steel (initial)	11.5 N/cm 105.1 oz/in
• PET (initial)	9.8 N/cm 89.5 oz/in	• Steel (after 14 days)	14 N/cm 127.9 oz/in

Disclaimer

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