

tesa® 51965 205µm double sided black filmic tape

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

tesa® 51965 features especially:

- 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 colour to optimise automatic pick and place processes

Main Application

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

Technical Data

▪ Backing material	PET film	▪ Type of adhesive	tackified acrylic
▪ Color	black	▪ Elongation at break	50 %
▪ Total thickness	205 µm	▪ Tensile strength	20 N/cm

Adhesion to

▪ Steel (initial)	11.5 N/cm	▪ Steel (after 14 days)	14.0 N/cm
▪ ABS (initial)	10.8 N/cm	▪ ABS (after 14 days)	11.9 N/cm
▪ Aluminium (initial)	10.2 N/cm	▪ Aluminium (after 14 days)	12.6 N/cm
▪ PC (initial)	12.2 N/cm	▪ PC (after 14 days)	13.4 N/cm
▪ PE (initial)	5.6 N/cm	▪ PE (after 14 days)	6.6 N/cm
▪ PET (initial)	9.8 N/cm	▪ PET (after 14 days)	11.9 N/cm
▪ PP (initial)	6.0 N/cm	▪ PP (after 14 days)	8.8 N/cm
▪ PS (initial)	10.4 N/cm	▪ PS (after 14 days)	12.1 N/cm
▪ PVC (initial)	9.6 N/cm	▪ PVC (after 14 days)	12.8 N/cm

Properties

▪ Temperature resistance short term	200 °C	▪ Resistance to chemicals	●●●●
▪ Temperature resistance long term	100 °C	▪ Softener resistance	●●●●
▪ Tack	●●●●	▪ Static shear resistance at 23°C	●●●●
▪ Ageing resistance (UV)	●●●●●	▪ Static shear resistance at 40°C	●●●●
▪ Humidity resistance	●●●●●		

Evaluation across relevant tesa® assortment: ●●●● very good ●●● good ●● medium ● low

For latest information on this product please visit <http://l.tesa.com/?ip=51965>

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.

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Additional Information

Liner variants:

PV0 brown glassine paper (71µm; 82g/m²)

PV4 white with blue tesa® logo PE-coated paper (122µm; 120g/m²)

PV6 red MOPP-film (80µm; 72g/m²)

PV7 transparent PET-film (50µm; 72g/m²)

PV11 white PET-film (50µm; 72g/m²)

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