



tesa[®] 59652 - Team 4965 Black

Product Information

205µm / 8.1 mils double sided PET black film tape



Product Description

tesa[®] 59652 - Team 4965 Black is a black, double-sided industrial mounting tape consisting of a PET backing and a modified acrylic adhesive. The double-sided mounting tape is the black version of tesa[®] 4965 Original and its adhesive is based on a patented and protected product technology. The double-sided mounting tape with its opaque black backing helps to avoid undesired light exposure and contributes to light management in interior designs. tesa[®] 59652 - Team 4965 Black is able to withstand numerous environmental factors such as humidity, UV-light and temperatures of up to 200°C for limited periods of time. The tackified acrylic adhesive makes for an excellent hold on various surfaces, high tack, and good shear strength.

Several products are equipped with this unique and high performing product design and together these products make up Team 4965. This double-sided film tape assortment helps to easily select the most efficient tape based on customer demands, products, and processes. Explore the benefits of the full tesa[®] 4965 assortment here:

<https://www.tesa.com/en-us/industry/general-applications/mounting/team-4965-assortment>

Product Features

- Opaque black backing with light-blocking properties
- Reliable bond even on low surface energy surfaces
- Immediate usability right after assembly
- Black color for automatic pick-and-place processes
- High resistance to demanding environmental conditions

Application Fields

- tesa[®] 59652 - Team 4965 Black contributes to light management in interior designs
- LED strip mounting
- Mounting of lenses and cushioning foams in cellular phones
- Optical detection splicing
- Mounting of exterior car mirrors in the automotive industry



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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

• Type of liner	paper	• Total thickness	205 µm
• Weight of liner	80 g/m ²		8.1 mils
• Backing material	PET film	• Color	black
• Type of adhesive	tackified acrylic	• Color of liner	brown/blue logo
		• Thickness of liner	69 µm
			2.7 mils

Properties/Performance Values

• Elongation at break	50 %	• Static shear resistance at 23°C	very good
• Tensile strength	20 N/cm	• Static shear resistance at 40°C	very good
	11.4 lbs/in	• Tack	good
• Ageing resistance (UV)	good	• Temperature resistance long term	100 °C
• Chemical resistance	good		212 °F
• Humidity resistance	very good	• Temperature resistance min.	-40 °C
• Softener resistance	good		-40 °F
		• Temperature resistance short term	200 °C
			392 °F



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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 (after 14 days)	8.8 N/cm 80.4 oz/in
• Aluminium (initial)	10.2 N/cm 93.2 oz/in	• PP (covered side, initial)	6 N/cm 54.8 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

Additional Information

Liner variant:

PV20: branded brown paper liner (69µm / 2.7 mils; 80g/m²)

Disclaimer

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.

For latest information on this product please visit <http://l.tesa.com/?ip=59652>