



# tesa® 59650 - Team 4965 Thin



## Product Information

160µm double sided transparent film tape  
Also referred to as order number tesa® 59650

## Product Description

tesa® 4965 Thin is a transparent double-sided self-adhesive tape consisting of a PET backing and a modified acrylic adhesive and is based on a patented and protected product formulation. 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. Order tesa® 4965 Thin using order number tesa® 59650. Explore the benefits of the full tesa® 4965 assortment here: <https://www.tesa.com/en/industry/general-applications/mounting/team-4965-assortment>

tesa® 4965 Thin features:

- Extremely high holding power even at elevated temperatures
- Superior converting performance due to strong PET backing and reduced adhesive mass flow
- Good bonding performance even to LSE materials

## Product Features

- High bonding strength despite thin tape design
- Immediate usability right after assembly
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Reliable bond even on low surface energy surfaces
- High holding power at elevated temperatures
- Low VOC – measured according to VDA 278 analysis
- Good converting properties

## Application Fields

- Mounting lenses to mobile phone housings \* Mounting of ABS plastic parts in the automotive industry \* Mounting of decorative profiles and mouldings in the furniture 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.



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### Product Construction

• Backing material	PET film	• Colour	transparent
• Type of adhesive	tackified acrylic	• Colour of liner	red
• Type of liner	MOPP	• Thickness of liner	80 µm
• Total thickness	160 µm	• Weight of liner	72 g/m <sup>2</sup>

### 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
• Ageing resistance (UV)	good	• Tack	good, medium
• Chemical resistance	good	• Temperature resistance long term duration	100 °C
• Humidity resistance	very good	• Temperature resistance min.	-40 °C
• Softener resistance	good, medium	• Temperature resistance short term duration	200 °C

### Adhesion to Values

• ABS (initial)	9.8 N/cm	• PET (after 14 days)	10.5 N/cm
• ABS (after 14 days)	10.8 N/cm	• PP (initial)	5.3 N/cm
• Aluminium (initial)	9.6 N/cm	• PP (after 14 days)	7 N/cm
• Aluminium (after 14 days)	12.2 N/cm	• PS (initial)	10.2 N/cm
• PC (initial)	11.7 N/cm	• PS (after 14 days)	11.1 N/cm
• PC (after 14 days)	13.1 N/cm	• PVC (initial)	8.9 N/cm
• PE (initial)	5.2 N/cm	• PVC (after 14 days)	11.9 N/cm
• PE (after 14 days)	5.7 N/cm	• Steel (initial)	11.3 N/cm
• PET (initial)	9.3 N/cm	• Steel (after 14 days)	13.4 N/cm



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### Additional Information

According to VDA278 analysis, tesa<sup>®</sup> 4965 Thin does not contain any single substances restricted by the drafted GB regulations (China) as well as the indoor concentration guideline by Health, Labour and Welfare Ministry (Japan).

## Disclaimer

tesa<sup>®</sup> 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<sup>®</sup> 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=59650>