



# tesa HAF<sup>®</sup> 8444

## Product Information

100 µm transparent HAF mounting tape

### Product Description

tesa<sup>®</sup> Thermoplastic HAF 8444 is a copolyester based thermoplastic bonding film. This transparent double-sided tape has no backing. It is protected by a strong paper liner.

tesa<sup>®</sup> Thermoplastic HAF 8444 is free of halogen and compliant with current ROHS standards.

At room temperature tesa<sup>®</sup> Thermoplastic HAF 8444 is not tacky. It is activated by heat while applying slight pressure.

### Product Features

- Reliable and ageing resistant bonds
- Very high bonding strength on large bonding areas
- Low bonding pressure required
- Bonds remain elastic

### Application Fields

tesa<sup>®</sup> HAF 8444 is especially recommended for bonding of metal components to various plastic or metal surfaces, e.g. SUS or AL to PC, PMMA or ABS:

- Bonding of decorative metal components
- Bonding of logo to housing
- Fabric bonding in accessories

### 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          | none        | • Total thickness | 100 µm      |
| • Type of adhesive | copolyester | • Color           | transparent |
| • Type of liner    | glassine    |                   |             |

For latest information on this product please visit <http://l.tesa.com/?ip=08444>



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### Properties/Performance Values

- Bonding strength 5.5 N/mm<sup>2</sup>

### Additional Information

Technical recommendations: tesa<sup>®</sup> Thermoplastic HAF 8444 is not self adhesive. It is activated by heat while applying slight pressure.

The following values are recommendations for bond line parameters to start with:

1. Pre-lamination: During pre-lamination, the adhesive tape is laminated onto the metal substrate. This step does not affect the shelf life time of the adhesive tape. Pre-laminated components can be stored over the same period of time as the adhesive tape.

Setting:

- Temperature<sup>1</sup>: 90–130 °C
- Pressure<sup>2</sup>: 2–5 bar
- Time: 2–5 s.

2. Bonding: Remove the liner from tape after pre-lamination step. Place the metal part onto the plastic component. Apply sufficient temperature through the metal part while applying pressure for the bonding time to reach sufficient bonding strength.

Setting:

- Temperature<sup>1</sup>: 115–140 °C
- Pressure<sup>2</sup>: 2–5 bar
- Time: 5–15 s.

To achieve optimum performance a cooling step (while applying pressure) directly after the bonding step is recommended.

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<sup>1</sup> 'Pre-lamination' and 'Bonding' temperature refer to the data that is measured in the bond line.

<sup>2</sup> 'Pre-lamination' and 'Bonding' pressure refer to the force that is transformed from mould surface directly to the bonding area.

Bonding strength values were obtained under standard laboratory conditions (Material: AL & PC test specimen / Bonding conditions: Temperature = 140 °C; Pressure = 5 bar; Time = 7 sec).

To reach maximum bonding strength surfaces should be clean and dry. Storage conditions according to tesa<sup>®</sup> HAF shelf life concept.

### 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.



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