



# tesa® HAF 8401

## Product Information



200 µm amber reactive HAF mounting tape

### Product Description

tesa® HAF 8401 is a reactive heat activated film based on phenolic resin and nitrile rubber. This amber double sided tape has no backing. It is protected by a strong paper liner and can easily be slit and die cut.

At room temperature tesa® HAF 8401 is not tacky. It is activated for pre-lamination by heat and starts to become tacky at 90 °C. In a second application step heat and pressure is applied over a certain period of time.

After curing tesa® HAF 8401 reaches:

- \*Very high bonding strength
- \*High temperature resistance
- \*Excellent chemical resistance
- \*Bonds remain flexible and elastic

### Application Fields

It is suitable for bonding of all thermal resistant materials such as metal, glass, plastic, wood and textiles.

- \*High-strength splicing (overlap splice)
- \*Structural bonding
- \*Magnet bonding in electric motors
- \*Friction liners for clutches

### 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 material | none                            | • Total thickness | 200 µm |
| • Type of adhesive | nitrile rubber / phenolic resin | • Color           | amber  |
| • Type of liner    | glassine                        |                   |        |

### Properties/Performance Values

- Bonding strength (dynamic shear) 12 N/mm<sup>2</sup>

### Additional Information

Processing:

1.Pre-lamination:

tesa® HAF 8401 is laminated before curing. For this process we recommend a temperature between 120 °C and 140 °C.

For latest information on this product please visit <http://l.tesa.com/?ip=08401>



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#### 2. Bonding:

The bonding conditions temperature, pressure and time depend on the application. Following parameters can be regarded as a guideline:

#### Splicing application:

\*Temperature: 120-220 °C

\*Pressure: >2bar

2bar

\*Time: 15 – 90 s.

#### Friction liners for clutches:

\*Temperature: 180 – 230 °C

\*Pressure: > 8 bar

8 bar

\*Time: 3 min – 30 min

#### Magnet bonding:

\*Temperature: 140 – 180 °C

\*Pressure: > 6-10 bar

6-10 bar

\*Time: 2 min - 5 min

#### Structural bonding:

\*Temperature: 180 – 220 °C

\*Pressure: > 10-15 bar

10-15 bar

\*Time: > 3 - 30 min

3 - 30 min

Bonding strength values were obtained under standard laboratory conditions. Value is guaranteed clearance limit checked with each production batch (Material: Etched aluminium test specimen / Bonding conditions: Temp. = 120 °C; p = 10 bar; t = 8 min)

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



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### Disclaimer

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For latest information on this product please visit <http://l.tesa.com/?ip=08401>