

# 9402

## Product Information



125µm amber reactive HAF mounting tape

### Product Description

tesa HAF® 9402 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® 9402 is not tacky. It is activated by heat and starts to become tacky at 90 °C for pre-lamination. In a second application step heat and pressure is applied over a certain period of time.

After curing tesa HAF® 9402 reaches:

- \*Very high bonding strength
- \*High temperature resistance of up to 350°C
- \*Excellent chemical resistance
- \*Resistance against oil and solvents
- \*Bonds remain flexible and elastic

### Product Features

- Very high bonding strength
- High temperature resistance
- Excellent chemical resistance
- Resistance against oil and solvents
- 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.

- \*Friction linings for clutch discs
- \*Friction linings for synchronizer rings

### 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          | none                            | • Total thickness | 125 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® 9402 is laminated before curing. For this process we recommend a temperature between 90°C and 140°C.

#### 2. Bonding:

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

Friction linings for synchronizer rings:

\*Temperature: 180 – 230°C

\*Pressure: > 6 bar

\*Time: 3 min

#### 3. Tempering (optional)

For latest information on this product please visit <http://l.tesa.com/?ip=09402>



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### Additional Information

To reach maximum bonding strength the bonded parts can be tempered at 180 - 230°C for 30 - 60 min without pressure.

Bonding strength values were obtained under standard laboratory conditions. Value is guaranteed clearance limit checked with each production batch (Material: Etched aluminum 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 HAF® shelf life concept.

### Disclaimer

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