

# tesa HAF® 9410

## **Product Information**



## 60 µm amber reactive structural bonding film

## **Product Description**

tesa HAF® 9410 is a reactive heat activated structural bonding 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® 9410 is not tacky. It is activated by heat and starts to become tacky at 90 °C for prelamination. In a second application step heat and pressure is applied over a certain period of time.

### **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
- Brake shims

## 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	60 µm
•	Type of adhesive	nitrile rubber /	•	Color	amber
		phenolic resin			

• Type of liner glassine

### **Properties/Performance Values**

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

#### **Additional Information**

Processing:



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#### 1. Pre-lamination:

tesa HAF $^{\circ}$  9410 is laminated to the first substrate 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 clutch discs:

• Temperature: 180-230 °C

Pressure: > 6 barTime: 3–30 min

3. Tempering (optional)

To reach the 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 aluminium test specimen / Bonding conditions: temperature = 120°C; pressure = 10 bar; time = 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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