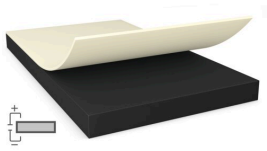
tesa® HAF 58452

Product Information



50 µm black electrically conductive (XYZ) reactive HAF mounting tape

Product Description

tesa HAF® 58452 is a reactive heat activated film based on phenolic resin and nitrile rubber with electrically conductive properties. This black double sided tape has no backing. It is protected by a 50 µm PET liner.

At room temperature tesa HAF® 58452 is not tacky. It is activated by heat and pressure applied during the assembly process.

Special features:

- Extremely high performance, even on small bonding areas and thin design gaps
- Excellent electrical conductivity in XYZ-direction
- Superior anti-repulsion properties even at elevated temperatures
- Outstanding chemical resistance

Application Fields

tesa HAF® 58452 is especially recommended for bonding of various metal surfaces, e.g. SUS or AL.

- Grounding applications with structural bonding requirements
- Narrow and small bonding areas but still need very strong bonding strength
- High repulsion force applications such as curved or bended bonds
- Grounding applications exposed to high temperature and humidity

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	50 µm
• Type of adhesive	nitrile rubber / phenolic resin	• Color	black
• Type of liner	PET		

Properties/Performance Values

• Bonding strength (dynamic shear)	7 N/mm^2	• Surface resistance x-y-direction	500 mOhm
• Contact resistance z-direction	50 mOhm		

Additional Information

Technical recommendations: tesa HAF® 58452 is not self adhesive. It is activated by heat and pressure over a certain interval. The following values are recommendations for bond line parameters to start with.

For latest information on this product please visit http://l.tesa.com/?ip=58452

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Product Information

Additional Information

1. Pre-lamination: During pre-lamination, the tape is laminated onto one component.

Setting:

- Temperature[1]: 85-110 °C
- Pressure[2]: ≥5 bar
- Time: 5-10 s

2. Bonding: Remove the liner from the tape after pre-lamination step. Place the pre-laminated component onto the substrate to bond with. Apply sufficient temperature while applying pressure for the bonding time to reach sufficient bonding strength.

Setting:

- Temperature[1]: 120-250 °C
- Pressure[2]: 5-30 bar
- Time: 5 s – 3 min

[1] 'Pre-lamination' and 'Bonding' temperature refer to the data that is measured in the bond line. [2] 'Pre-lamination' and 'Bonding' pressure refer to the force that is transformed from jig surface directly to the bonding area. Bonding strength values were obtained under standard laboratory conditions. (Material: SUS test specimen / bonding conditions: temperature = 180 °C; pressure = 30 bar; time = 30 sec). To reach maximum bonding strength surfaces should be clean and dry.

Disclaimer

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