



tesa® 4959

Product Information



100 µm double sided translucent premium non woven tape

Product Features

- High initial tack and peel adhesion
- Excellent temperature resistance
- Very good bonding strength, even to low surface energy materials
- Outstanding converting and die-cutting properties
- Highly conformable to follow difficult 3D shapes due to non-woven backing

Product Description

tesa® 4959 is a double-sided non-woven industrial mounting and splicing tape with a highly tackified acrylic adhesive. The premium non-woven tape is, for instance, used for mounting signs and nameplates or other mounting and high performance lamination applications. tesa® 4959 is especially designed to connect flexible materials to one another. The mounting and splicing tape is able to withstand numerous environmental factors such as humidity, UV-light and temperatures of up to 200°C for limited periods of time. The tackified acrylic adhesive makes for an excellent hold on various surfaces, very high tack, and good shear strength. The adhesive is coated on a flexible and conformable cellulose non-woven backing which conforms even to difficult 3D shapes.

tesa® 4959 is also available in a 160µm version (tesa® 4962).

Application Fields

- tesa® 4959 is ideally used for industrial mounting, high performance lamination, and splicing applications
- Mounting of signs, covers and nameplates
- Lamination of insulation materials and foams for HVAC (heating, ventilation, and air conditioning) seal
- Mounting of plastic bags, dispatch bags, continuous stationery, posters, etc.
- Splicing of paper and film webs

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

- | | | | |
|----------------------|-------------|--------------------|-------------------|
| • Color of liner | brown | • Backing material | non-woven |
| • Total thickness | 100 µm | • Type of adhesive | tackified acrylic |
| • Thickness of liner | 71 µm | • Type of liner | glassine |
| • Color | translucent | | |



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Properties/Performance Values

• Elongation at break	3 %	• Temperature resistance short term	200 °C
• Static shear resistance at 23°C	good	• Tack	very good
• Chemical resistance	good	• Tensile strength	8 N/cm
• Static shear resistance at 40°C	medium	• Ageing resistance (UV)	very good
• Temperature resistance long term	80 °C	• Humidity resistance	very good

Adhesion to Values

• Steel (initial)	8 N/cm	• Aluminium (initial)	7.5 N/cm
• PE (initial)	4 N/cm	• ABS (after 14 days)	9 N/cm
• PC (after 14 days)	14 N/cm	• PC (initial)	9.5 N/cm
• PS (after 14 days)	9 N/cm	• PVC (initial)	6.5 N/cm
• ABS (initial)	7.5 N/cm	• PS (initial)	8.5 N/cm
• PP (after 14 days)	6.5 N/cm	• PET (initial)	7 N/cm
• PET (after 14 days)	7.5 N/cm	• PP (initial)	5.5 N/cm
• Aluminium (after 14 days)	8 N/cm	• Steel (after 14 days)	8.5 N/cm
• PE (after 14 days)	4.5 N/cm	• PVC (after 14 days)	14 N/cm

Additional Information

Liner variants:

- PV0: brown glassine paper (69µm; 80g/m²)
- PV36 double liner: brown glassine paper (69µm; 80g/m²)

According to VDA278 analysis, tesa® 4959 does not contain any single substances restricted by the drafted GB regulations (China) as well as the indoor concentration guideline by Health, Labour and Welfare Ministry (Japan).



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Product Information

Disclaimer

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