



tesa[®] 4959

Product Information



Double-sided non-woven tape

Product Description

tesa[®] 4959 is a double-sided mounting and splicing tape equipped with a non-woven backing and coated with an acrylic adhesive of high tack and good shear strength. It is UV and ageing resistant and largely resistant to plasticizers.

Product Features

- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Reliable bond, often also on low surface energy surfaces
- Light and aging-resistant acrylic adhesive for long-term applications
- Excellent initial tack and peel adhesion
- Good converting and die-cutting properties
- Highly conformable to follow difficult 3D shapes due to non-woven backing

Application Fields

- Mounting of signs, covers and nameplates
- Mounting of door linings in the car industry
- 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

| | | | |
|--------------------|--------------------|----------------------|-------------|
| • Backing | non-woven | • Color | translucent |
| • Type of adhesive | tackified acrylic | • Color of liner | brown |
| • Type of liner | paper | • Thickness of liner | 71 µm |
| • Total thickness | 100 µm 3.9 mils | | 2.8 mils |



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Properties/Performance Values

| | | | |
|-----------------------------------|----------------------|-------------------------------------|------------------|
| • Elongation at break | 2 % | • Static shear resistance at 40°C | medium |
| • Tensile strength | 8 N/cm 4.6 lbs/in | • Tack | very good |
| • Ageing resistance (UV) | very good | • Temperature resistance long term | 80 °C 176 °F |
| • Chemical Resistance | good | • Temperature resistance min. | -40 °C -40 °F |
| • Humidity resistance | very good | • Temperature resistance short term | 200 °C 392 °F |
| • Static shear resistance at 23°C | good | | |

Adhesion to Values

| | | | |
|-----------------------------|------------------------|-------------------------|------------------------|
| • ABS (initial) | 7.5 N/cm 68.5 oz/in | • PET (after 14 days) | 7.5 N/cm 68.5 oz/in |
| • ABS (after 14 days) | 9 N/cm 82.2 oz/in | • PP (initial) | 5.5 N/cm 50.2 oz/in |
| • Aluminium (initial) | 7.5 N/cm 68.5 oz/in | • PP (after 14 days) | 6.5 N/cm 59.4 oz/in |
| • Aluminium (after 14 days) | 8 N/cm 73.1 oz/in | • PS (initial) | 8.5 N/cm 77.7 oz/in |
| • PC (initial) | 9.5 N/cm 86.8 oz/in | • PS (after 14 days) | 9 N/cm 82.2 oz/in |
| • PC (after 14 days) | 14 N/cm 127.9 oz/in | • PVC (initial) | 6.5 N/cm 59.4 oz/in |
| • PE (initial) | 4 N/cm 36.5 oz/in | • PVC (after 14 days) | 14 N/cm 127.9 oz/in |
| • PE (after 14 days) | 4.5 N/cm 41.1 oz/in | • Steel (initial) | 8 N/cm 73.1 oz/in |
| • PET (initial) | 7 N/cm 64 oz/in | • Steel (after 14 days) | 8.5 N/cm 77.7 oz/in |

Additional Information

Liner variants:

PV0 brown glassine paper (71 µm/2.8 mils)

PV6 red MOPP-film (80 µm/3.2 mils)

PV36 double lined brown glassine paper

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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Disclaimer

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