



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.

Sustainable Aspects

tesa® More Sustainable Paper Liner:

- Responsibly sourced paper liner (certified)
- Unbleached paper with 30% recycled fibers



For more information: <https://www.tesa.com/product-sustainability>

Product Features

- High initial tack and peel adhesion
- Light and aging-resistant acrylic adhesive for long-term applications
- 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

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

For latest information on this product please visit <http://l.tesa.com/?ip=04959>



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Properties/Performance Values

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

Adhesion to Values

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



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Additional Information

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).

Disclaimer

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



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