



tesa[®] 51903

Product Information



Double-sided self-adhesive tape without liner

Product Description

tesa[®] 51903 is a double-sided adhesive tape, consisting of a PVC-film without liner.

The adhesive on both sides is exactly balanced, so that tesa[®] 51903 can be unwound easily, even after long periods in storage.

Product Features

- Double-sided tape without liner
- Different adhesion values on each side
- Adhesive on each side is precisely balanced, so that tesa[®] 51903 can be unwound without liner

Application Fields

- Mounting of light weight parts
- Splicing of various materials such as plastic, metal foils, paper and cardboards.
- The acrylic-mass system has different adhesion values on each side. tesa[®] 51903 is therefore especially suited as closure system even for thin film bags.

tesa[®] 51903 is also used for mounting in the lithography industry.

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 | PVC film | • Total thickness | 86 µm |
| • Type of adhesive | acrylic | • Color | transparent |

Properties/Performance Values

- | | | | |
|--------------------------|----------------------|-------------------------------------|------------------|
| • Elongation at break | 40 % | • Static shear resistance at 23°C | low |
| • Tensile strength | 35 N/cm
20 lbs/in | • Static shear resistance at 40°C | low |
| • Ageing resistance (UV) | very good | • Tack | good |
| • Chemical Resistance | medium | • Temperature resistance long term | 60 °C
140 °F |
| • Humidity resistance | very good | • Temperature resistance min. | -40 °C
-40 °F |
| • Softener resistance | low | • Temperature resistance short term | 70 °C
158 °F |

For latest information on this product please visit <http://l.tesa.com/?ip=51903>



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Adhesion to Values

• ABS (initial)	2.8 N/cm 25.6 oz/in	• PET (after 14 days)	2.2 N/cm 20.1 oz/in
• ABS (after 14 days)	2 N/cm 18.3 oz/in	• PP (initial)	1.7 N/cm 15.5 oz/in
• Aluminium (initial)	1.5 N/cm 13.7 oz/in	• PP (after 14 days)	2.4 N/cm 21.9 oz/in
• Aluminium (after 14 days)	2.5 N/cm 22.8 oz/in	• PS (initial)	2.7 N/cm 24.7 oz/in
• PC (initial)	2.7 N/cm 24.7 oz/in	• PS (after 14 days)	2.7 N/cm 24.7 oz/in
• PC (after 14 days)	1.8 N/cm 16.4 oz/in	• PVC (initial)	1.8 N/cm 16.4 oz/in
• PE (initial)	1.2 N/cm 11 oz/in	• PVC (after 14 days)	2.5 N/cm 22.8 oz/in
• PE (after 14 days)	1.8 N/cm 16.4 oz/in	• Steel (initial)	2.4 N/cm 21.9 oz/in
• PET (initial)	1.8 N/cm 16.4 oz/in	• Steel (after 14 days)	3 N/cm 27.4 oz/in

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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