

tesa® 51903

Product Information



86µm double sided transparent PVC film tape without liner

Product Description

tesa® 51903 is a transparent, double-sided adhesive tape without release liner featuring a PVC backing and an acrylic adhesive. The acrylic adhesive system of the double-sided linerless tape has different adhesion values on each side, which makes tesa® 51903 the perfect solution for box-closure applications. The different adhesion values on each side are precisely balanced, so that tesa® 51903 can be unwound easily, even after long periods of 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

- tesa® 51903 is ideally used for box-closure applications and is even suited for thin film bags
- Mounting lightweight parts
- Splicing various materials such as plastic, metal foils, paper, and cardboard
- Bonding applications 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 | • Static shear resistance at 40°C | low |
| • Ageing resistance (UV) | very good | • Tack | good |
| • Chemical Resistance | medium | • Temperature resistance long term | 60 °C |
| • Humidity resistance | very good | • Temperature resistance min. | -40 °C |
| • Softener resistance | low | • Temperature resistance short term | 70 °C |

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Adhesion to Values

• ABS (initial)	2.8 N/cm	• PET (after 14 days)	2.2 N/cm
• ABS (after 14 days)	2 N/cm	• PP (initial)	1.7 N/cm
• Aluminium (initial)	1.5 N/cm	• PP (after 14 days)	2.4 N/cm
• Aluminium (after 14 days)	2.5 N/cm	• PS (initial)	2.7 N/cm
• PC (initial)	2.7 N/cm	• PS (after 14 days)	2.7 N/cm
• PC (after 14 days)	1.8 N/cm	• PVC (initial)	1.8 N/cm
• PE (initial)	1.2 N/cm	• PVC (after 14 days)	2.5 N/cm
• PE (after 14 days)	1.8 N/cm	• Steel (initial)	2.4 N/cm
• PET (initial)	1.8 N/cm	• Steel (after 14 days)	3 N/cm

Disclaimer

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