



tesa® 51865 - Team 4965 Differential



Product Information

165µm/6.5 mils double sided transparent PET film tape with asymmetrical product design

Product Description

- tesa® 51865 - Team 4965 Differential is a transparent, double-sided industrial mounting tape consisting of a PET backing and a tackified acrylic adhesive. The asymmetrical double-sided tape is the differential version of tesa® 4965 Original and its adhesive is based on a patented and protected product technology. The liner covered side of tesa® 51865 - Team 4965 Differential has a high coating weight for maximum flexibility and versatility on multiple surface demands. The open side has a reduced coating weight which delivers a secure bond to flat profiles laminated under controlled conditions. tesa® 51865 - Team 4965 Differential 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, high tack, and good shear strength.

Several products are equipped with this unique and high performing product design and together these products make up Team 4965. This double-sided film tape assortment helps to easily select the most efficient tape based on customer demands, products, and processes. Explore the benefits of the full tesa® 4965 assortment here:

<https://www.tesa.com/en-us/industry/general-applications/mounting/team-4965-assortment>

Sustainable Aspects

- tesa® 51865 Next Gen with -37% CO₂ emissions* compared to tesa® 51865
- Biomass balanced tackified acrylic adhesive
- 90% PCR PET in the backing



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

Product Features

- Asymmetrical product design with superior adhesion on liner covered side
- Excellent bond to extruded trims and profiles
- Reliable bond even on low surface energy surfaces
- Immediate usability right after assembly
- High resistance to demanding environmental conditions

Application Fields

- tesa® 51865 - Team 4965 Differential is especially designed for mounting of extruded trims and profiles
- Mounting of decorative trims and profiles in the furniture industry
- Bonding in the roller blind production
- Mounting of magnetic stripes

For latest information on this product please visit <http://l.tesa.com/?ip=51865>



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Product Information

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 | PET film | • Total thickness | 165 µm |
| • Bio-based carbon content of liner (acc. DIN EN 16640) | 90 % | • Color | 6.5 mils
transparent |
| • Type of adhesive | tackified acrylic | | |

Properties/Performance Values

- | | | | |
|--------------------------|------------------------|-------------------------------------|------------------|
| • Elongation at break | 55 % | • Static shear resistance at 23°C | very good |
| • Tensile strength | 20 N/cm
11.4 lbs/in | • Static shear resistance at 40°C | very good |
| • Ageing resistance (UV) | good | • Tack | good |
| • Chemical Resistance | good | • Temperature resistance long term | 100 °C
212 °F |
| • Humidity resistance | very good | • Temperature resistance min. | -40 °C
-40 °F |
| • Softener resistance | good | • Temperature resistance short term | 200 °C
392 °F |



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Adhesion to Values

• ABS (initial)	9.5 N/cm 86.8 oz/in	• PET (covered side, after 14 days)	10.5 N/cm 95.9 oz/in
• ABS (after 14 days)	10 N/cm 91.4 oz/in	• PET (covered side, initial)	10 N/cm 91.4 oz/in
• ABS (covered side, after 14 days)	13 N/cm 118.8 oz/in	• PP (initial)	7 N/cm 64 oz/in
• ABS (covered side, initial)	12 N/cm 109.6 oz/in	• PP (after 14 days)	8 N/cm 73.1 oz/in
• Aluminium (initial)	9 N/cm 82.2 oz/in	• PP (covered side, after 14 days)	8.5 N/cm 77.7 oz/in
• Aluminium (after 14 days)	9.5 N/cm 86.8 oz/in	• PP (covered side, initial)	8 N/cm 73.1 oz/in
• Aluminium (covered side, after 14 days)	12.5 N/cm 114.2 oz/in	• PS (initial)	9 N/cm 82.2 oz/in
• Aluminium (covered side, initial)	12 N/cm 109.6 oz/in	• PS (after 14 days)	11 N/cm 100.5 oz/in
• PC (initial)	9 N/cm 82.2 oz/in	• PS (covered side, after 14 days)	13.5 N/cm 123.3 oz/in
• PC (after 14 days)	12 N/cm 109.6 oz/in	• PS (covered side, initial)	12 N/cm 109.6 oz/in
• PC (covered side, after 14 days)	15 N/cm 137 oz/in	• PVC (initial)	7 N/cm 64 oz/in
• PC (covered side, initial)	13 N/cm 118.8 oz/in	• PVC (after 14 days)	11 N/cm 100.5 oz/in
• PE (initial)	6.5 N/cm 59.4 oz/in	• PVC (covered side, after 14 days)	14 N/cm 127.9 oz/in
• PE (after 14 days)	7 N/cm 64 oz/in	• PVC (covered side, initial)	9 N/cm 82.2 oz/in
• PE (covered side, after 14 days)	8 N/cm 73.1 oz/in	• Steel (initial)	9.6 N/cm 87.7 oz/in
• PE (covered side, initial)	7 N/cm 64 oz/in	• Steel (after 14 days)	11.5 N/cm 105.1 oz/in
• PET (initial)	9 N/cm 82.2 oz/in	• Steel (covered side, after 14 days)	14.5 N/cm 132.5 oz/in
• PET (after 14 days)	9.5 N/cm 86.8 oz/in	• Steel (covered side, initial)	13.3 N/cm 121.5 oz/in



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Certificates

Sustainability Certificates

tesa[®] 51865 Next Gen – Team 4965 Differential contains a 90% recycled PET backing, resulting in an average of 6% post-consumer recycled content (including red MOPP liner) in the tape. This is a third-party environmental claim validated against the UL Environmental Claim Validation Procedure 2809 for recycled content. The UL Environmental Claim Validation Program falls under UL's ISO/IEC17025 accreditation.

Additional Information

Liner variants:

- PV2: brown glassine paper (78µm / 3.1 mils; 90g/m²)
- PV6: red MOPP-film (80µm / 3.2 mils; 72g/m²)

For spools, it is recommended to use tesa[®] dispensers to achieve optimal results.

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.



For latest information on this product please visit <http://l.tesa.com/?ip=51865>