



tesa® 51865 - Team 4965 Differential



Product Information

165µm double sided transparent asymmetrical filmic tape

Product Description

tesa® 51865 is an asymmetrical transparent double-sided self-adhesive tape consisting of a PET backing and a tackified acrylic adhesive.

The covered side of tesa® 51865 has a high coating weight for maximum flexibility and versatility on multiple surface demands. The open side of tesa® 51865 shows a reduced coating weight that guarantees a secure bond to flat profiles laminated under controlled conditions.

tesa® 51865 features especially:

- Excellent bond to extruded trims and profiles
- Reliable bond even to LSE (Low Surface Energy) substrates
- Immediate usability right after assembly
- Suitability for most demanding applications such as heavy stress, high temperatures or critical substrates

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



Product Features

- Asymmetrical product design with 100µm adhesive on liner-covered side and 60µm on open side for defined substrates
- Excellent bond to extruded trims and profiles
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- Reliable bond, often also on low surface energy surfaces
- Immediate usability right after assembly
- Low VOC – measured according to VDA 278 analysis

Application Fields

- Mounting of decorative trims and profiles in the furniture industry
- Lamination of magnetic stripes
- Roller blind production
- Equipping extruded plastic profiles with transparent double sided filmic tape

Technical Information (average values)

The values in this section should be considered representative or typical only and should not be

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



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Technical Information (average values)

used for specification purposes.

Product Construction

| | | | |
|---|-------------------|-------------------|-------------|
| • Backing material | PET film | • Total thickness | 165 µm |
| • Bio-based carbon content of liner (acc. DIN EN 16640) | 90 % | • Colour | 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 | • Static shear resistance at 40°C | very good |
| • Ageing resistance (UV) | good | • Tack | good |
| • Chemical resistance | good | • Temperature resistance long term duration | 100 °C |
| • Humidity resistance | very good | • Temperature resistance min. term duration | -40 °C |
| • Softener resistance | good | • Temperature resistance short term duration | 200 °C |

Adhesion to Values

| | | | |
|-------------------------------------|-----------|---------------------------------------|-----------|
| • ABS (initial) | 9.5 N/cm | • PET (covered side, after 14 days) | 10.5 N/cm |
| • ABS (after 14 days) | 10 N/cm | • PET (covered side, initial) | 10 N/cm |
| • ABS (covered side, after 14 days) | 13 N/cm | • PP (initial) | 7 N/cm |
| • ABS (covered side, initial) | 12 N/cm | • PP (after 14 days) | 8 N/cm |
| • Aluminium (initial) | 9 N/cm | • PP (covered side, after 14 days) | 8.5 N/cm |
| • Aluminium (after 14 days) | 9.5 N/cm | • PP (covered side, initial) | 8 N/cm |
| • Alu (covered side, after 14 days) | 12.5 N/cm | • PS (initial) | 9 N/cm |
| • Aluminium (covered side, initial) | 12 N/cm | • PS (after 14 days) | 11 N/cm |
| • PC (initial) | 9 N/cm | • PS (covered side, after 14 days) | 13.5 N/cm |
| • PC (after 14 days) | 12 N/cm | • PS (covered side, initial) | 12 N/cm |
| • PC (covered side, after 14 days) | 15 N/cm | • PVC (initial) | 7 N/cm |
| • PC (covered side, initial) | 13 N/cm | • PVC (after 14 days) | 11 N/cm |
| • PE (initial) | 6.5 N/cm | • PVC (covered side, after 14 days) | 14 N/cm |
| • PE (after 14 days) | 7 N/cm | • PVC (covered side, initial) | 9 N/cm |
| • PE (covered side, after 14 days) | 8 N/cm | • Steel (initial) | 9.6 N/cm |
| • PE (covered side, initial) | 7 N/cm | • Steel (after 14 days) | 11.5 N/cm |
| • PET (initial) | 9 N/cm | • Steel (covered side, after 14 days) | 14.5 N/cm |
| • PET (after 14 days) | 9.5 N/cm | • Steel (covered side, initial) | 13.3 N/cm |

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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:

PV0: brown glassine paper (71µm; 82g/m²)

PV6: red MOPP-film (80µm; 72g/m²)

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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