tesa® 4965 range. Working for railways

The partnership between tesa and the railway industry is a particularly strong one stretching back over many decades. Today, the tesa® 4965 range is used extensively by train manufacturers and operators around the world to bond smarter. Applications include:

- **Permanent mounting**
  For the bonding of metal or plastic parts to different surfaces in high-stress and demanding interior and exterior applications, such as the securing of train door panelling. Solutions used include tesa® 4965 Original Next Gen.
- **Pre-mounting of small parts**
  This is the preliminary bonding of components to ensure better positioning before mechanical fixing, such as the cab console. Solutions used include tesa® 51865.
- **Mirror mounting**
  Permanent fastening of mirror or glass panes on wall panels. Solutions include tesa® 49652.
- **LED mounting**
  Securing lighting to the flooring or walls with train carriages. Solutions include: tesa® 59651.

Other uses of the range within train carriages include masking, flooring, insulation protection, and more.

tesa® 4965 range. Working for electronics

The electronics industry has been quick to seize upon the opportunities afforded by the tesa® 4965 range. In an industry where thinner, lighter more durable devices are the key objectives, tesa has enabled designers to achieve their goals. Applications include:

- **Touch screens**
  For joining together high complex substrates in a clean, clear way that enhance display performance. Solutions include: tesa® 49652.
- **Lens assembly**
  Thin, strong, highly conformable adhesives for securely fixing delicate components in small spaces. Solutions include tesa® 59650.
- **Battery pack mounting**
  For the secure mounting of device batteries and with reliable thermal management and insulation properties. Solutions include tesa® 4965 Original Next Gen.

Partner with progress

To discover why the tesa® 4965 mounting adhesive range is the first choice for industries around the globe, and to discuss your specific requirements with our experts, please get in touch. Together, we'll enable your team to bond smarter.

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data above mentioned are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore 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. 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.

The iconic tape
Your all-round mounting solution
Bond smarter

Mounting you can trust

The modern world is built on mounting. Every industry depends on the right bonds. At tesa, we have decades of proven mounting expertise, delivering trusted solutions like the iconic tesa® 4965 Original. To provide the specialized solutions and formats that today's industries need, we have developed a portfolio based on our Original's adhesive technology. Welcome to the tesa® 4965 range.

Adhesion you can rely on

The tesa® 4965 range is a double-sided, acrylic adhesive platform that delivers robust mounting across a diverse mix of applications. No matter the substrate or task at hand, the tesa® 4965 range has been expertly developed to deliver a proven bonding performance every time. It really is the smarter way to bond.

- High transparency
- Plastic and powder coated surfaces
- High performance requirements
- General purpose
- Automotive

For more information on the range, please see the technical specification for each solution.

Specialized solutions for industry

- **Fingerlift** for easier liner removal
- **High transparency** for optical clarity
- **Differential** for bonding dissimilar materials
- **Thin** for lightweight bonding in limited spaces
- **Thick** for shock absorption and extra adhesion
- **Transfer** tapes for greater conformity and securing laminations
- **Die-cut** for customized shapes delivering greater precision and efficiency

A true original

It all began with the tesa® 4965 Original. For decades this tape has been the market-leading all-rounder. Today, every tape in the tesa® 4965 range has been developed from the original's patented formula, extending its legacy to include thin, thick, high transparency, transfer tapes, and black mounting formats.

tesa® 4965 Original Next Gen

- 205 µm thickness
- Proven high shear performance
- Delivers a 40% CO2 reduction compared to the original - with biomass-based adhesives and 90% PCR (post-consumer recycled) PET in the backing without any loss in strength

tesa® 59650
tesa® 4953
tesa® 4945 Ultra-thin

- 160 µm / 100 µm / 50 µm thickness
- Excellent adhesion on smooth surfaces and highly conformable in limited spaces, e.g. electronic devices
- Equipped with a 90% PCR PET backing
- Biomass balanced tackified acrylic adhesive

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tesa® 4965 Fingerlift

- 205 µm thickness
- Extended liner for easier, faster removal
- Biomass balanced and 90% PCR PET backing for greater sustainability to meet market demand
- Frequently utilized for closing corrugated board cartons or for mounting different profiles

tesa® 49652 High Transparency
tesa® 59652 Black

- 100 µm / 205 µm thickness
- tesa® 49652 – for visually demanding applications requiring visual inspection of a crystal-clear bond
- tesa® 59652 for light management – ideal for automatic pick and place processes
- Highly transparent (tesa® 49652)
- Opaque black backing (tesa® 59652)

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tesa® 51865 Differential

- 165 µm thickness
- Asymmetrical design featuring both a high coating weight and reduced coating weight for maximum flexibility and bonding
- For secure bonding of flat profiles laminated under critical conditions
- Delivers a 37% CO2 reduction compared to the original – thanks to biomass-based adhesives and 90% PCR PET in the backing

tesa® 75505
tesa® 75507
tesa® 75515

- 50 µm / 75 µm / 125 µm thickness
- Biomass balanced adhesive for greater sustainability
- Made with 48% / 33% / 38% less CO2 compared to previous versions
- Unbleached glassine liner with 30% recycled content
- Excellent for the lamination of lightweight thin materials

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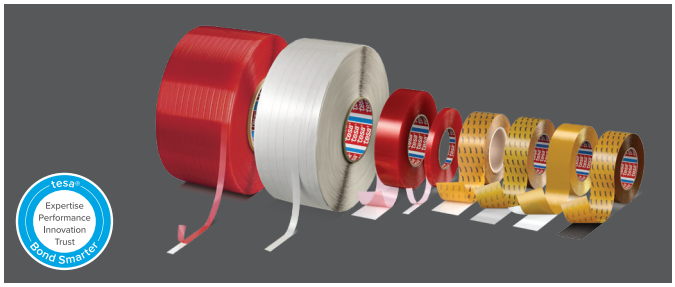
tesa® 59651

- 300 µm thickness
- Thick adhesive layer for levelling multiple surfaces
- Suitable for demanding bonding applications
- Robust, dependable solution

Peace of mind for industry. Bond smarter.

With many decades of adhesive expertise, every tape in our tesa® 4965 range has been extensively tested. Certifications among individual solutions include:

- **UL 969 compliant** (File MH 18055) for applications in electronics and other industries
- **ISO 10993-10** (irritation & sensitization) medical contact certified
- Skin contact certification according to **ISO 10993-5 and ISO 10993-10**
- **Low VOC** – measured according to VDA 278 analysis
- **The DIN EN 45545-2 R1 certification** for railway industry fire safety



For more information on the range, please see the technical specification for each solution.

Supporting your production

At tesa we understand exactly what manufacturers require from their adhesive tape provider and are committed to delivering the solutions, specifications, and service they want.

- High converting and automation efficiency (die cutting, spooling, slitting)
- Multiple liner types (MOPP, PET, glassine, PE-coated, double liner)
- Custom shapes for accuracy and reduced waste
- The reassurance of trusted technical expertise and support
- Reliable distribution through tesa's global network of proven supply chains

Bond smarter

Which industrial mounting solution should you trust? What is the correct adhesive tape for a specific application? How dependable are the supply chains? Whatever the question, you can rest assured that tesa's mounting solutions are engineered to always deliver the design, performance, impact, and reliability that industry needs – enabling you to bond smarter.