OUR ELECTRONICS ASSORTMENT

Adhesive Solutions for the Electronics Industry 2019
As a leading global manufacturer of adhesive solutions for the electronics industry, we offer a wide range of specially developed adhesive tapes for smartphones, tablets, and many other electronic devices. In this fast-moving business, it is necessary to keep up with the latest innovations. That is why we are continuously developing new products that will not only meet the demands of electronic devices, but also your individual technical needs.

We put you and your suppliers first by giving you the individual attention and service you deserve. Our numerous sales offices, our research and development departments, and our production facilities offer worldwide assistance wherever our customers are located. At our Application Solution Center, our technical experts evaluate your specific application needs under laboratory conditions. Our state-of-the-art equipment allows us to conduct the latest critical tests in order to find the adhesive tape that perfectly matches your individual needs.

ABOUT US
Qualified Experience and Individual Support

Our sophisticated expertise in electronic device applications enables us to support you in a professional way and help you to select the best of our adhesive tape solutions. We offer a large assortment of adhesives, liners, and backings that meet a full range of bonding requirements and help to improve the overall performance of electronic devices.

Tape solutions for smartphones

- Bendable
- Chemical resistance
- Conductivity
- Encapsulation
- Light-blocking
- Moisture control
- Outgassing resistance
- Shock resistance
- UV-curing
- UV-blocking
- Residue-free removable
- xyz

Solutions in Electronic Devices
MOUNTING TAPES
Solutions for General and Demanding Applications

Basic mounting tapes
- Solutions for general mounting and lamination applications
  - High adhesion level due to tackified acrylic adhesive
  - Good handling performance in converting process

Differential mounting tapes
- Solutions for repulsion resistance
  - Repulsion resistant adhesive on open side
  - High bonding strength due to tackified acrylic adhesive on permanent side

Removable
- Solutions for excellent removability
  - Easy removability due to pure acrylic adhesive on removing side
  - High bonding strength due to tackified acrylic adhesive on permanent side

Standard
- Solutions for optimized bonding performance on different substrates
  - Different coating weight provides different adhesion levels on both sides
  - Transparent or black PET backing for tear resistance

Special (Silicone)
- Solutions for optimized bonding performance on silicone or silicone containing substrates
  - Tape with differential adhesive system (Silicone/Acrylic)
  - PET backing allows good handling performance in converting processes

Anti-repulsion
- Solutions for improved repulsion resistance
  - Repulsion resistant adhesive
  - Transparent or black PET backing for easy converting processes

Conformable
- Solutions for better wetting and increased adhesion at constant thickness
  - Special tackified acrylic adhesive provides high bonding strength
  - Thin, conformable PET backing provides excellent conformability to uneven surfaces

Product group description
- Solutions for general mounting and lamination applications
- Proven solutions for mounting and lamination applications
- Solutions for repulsion resistance
- Solutions for excellent removability
- Solutions for optimized bonding performance
- Solutions for improved repulsion resistance
- Solutions for optimized bonding performance on different substrates
- Solutions for better wetting and increased adhesion at constant thickness

Thickness cluster [µm]
- 5
- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90
- 100
- 110
- 120
- 130
- 140
- 150
- 160
- 170
- 180
- 190
- 200
- 210
- 220
- 230
- 240
- 250
- 300
- 350
- 400
- 450
- 500
- 550
- 600
- 650
- 700
- >700

Application examples
- General mounting and lamination
  - Cushioning and gasket material bonding
  - Component mounting
- Foam lamination
  - Mounting of components (e.g. speaker or receiver module)
- Outer box wrapping
- Sidekey FPC mounting
  - Temporary mounting prior to mechanical fixation
  - Sealing support for foam gaskets
- Packaging of electronic devices
- Speaker mesh mounting
- Mounting on silicone or surfaces containing silicone (e.g. rubber foot, keypad)
- Bonding on curved surfaces
  - Mounting of bent substrates
  - Antenna and FPC mounting
- Demanding mounting applications where increased adhesion performance is necessary

Thickness cluster [µm]
- 5
- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90
- 100
- 110
- 120
- 130
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Application examples
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- Demanding mounting applications where increased adhesion performance is necessary

Adhesive examples
- Transparent
- Black

Overview
4 Overview

Overview
5 Overview
# MOUNTING TAPES

## Solutions for Demanding Applications

<table>
<thead>
<tr>
<th>Advanced mounting tapes</th>
<th>Advanced mounting tapes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin, high performance, and reworkable</td>
<td>Temperature resistant</td>
</tr>
<tr>
<td>Light-blocking</td>
<td>Display mounting</td>
</tr>
<tr>
<td>Standard</td>
<td>Solid black</td>
</tr>
<tr>
<td>Highly transparent</td>
<td>High push-out</td>
</tr>
<tr>
<td>High shock</td>
<td>Shock and push-out</td>
</tr>
<tr>
<td>Chemical resistant</td>
<td>PET</td>
</tr>
</tbody>
</table>

### Product group description

- **Solutions for outstanding removability of sensitive substrates**
  - Special reworkable adhesive features permanent reworkability on various substrates
  - High mounting performance on several substrates including low surface energy substrates

- **Solutions for lamination with high temperature resistance**
  - Special tackified acrylic adhesive ensures high tensile strength and stable holding power
  - Translucent non-woven backing for excellent temperature resistance
  - 8857: heat resistant liner

- **Solutions for light-shading and blocking**
  - Black/transparent tackified acrylic adhesive for very high bonding strength and shear resistance
  - Good handling performance in converting processes due to PET film backing
  - Double PET liner

- **Solutions for highly transparent mounting and lamination**
  - Tackified acrylic adhesive for a smooth and excellent transparent appearance
  - Excellent handling performance in converting processes due to PET backing
  - General PET liner

- **Solutions for high push-out performance**
  - Tackified acrylic adhesive for high bonding strength and superior push-out performance
  - Transparent or black PET backing for good handling performance in converting processes

- **Solutions for high shock performance**
  - High shock performance and good tack due to impact-resistant tackified adhesive
  - Transparent or black PET backing for good handling performance in converting processes

- **Solutions for strong shock and push-out performance**
  - Shock and push-out resistance due to novel acrylic adhesive
  - Transparent or black PET backing for good handling performance in converting processes

- **Solutions for chemical resistance requirements**
  - Excellent resistance against polar and non-polar chemicals due to special chemically resist adhesive
  - Black PET backing allows excellent converting performance

### Thickness cluster [µm]

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<tr>
<th>5</th>
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</tbody>
</table>

### Application examples

- Challenging component mounting with the option to remove the parts without leaving any residues
- Flexible printed circuit (FPC) mounting before SMT (reflow)
- Mounting of electronic components that are subjected to high temperature process
- Lamination of FPC to rigid substrates
- Component mounting
- Reflector and optical sheet fixation
- Demanding screen mounting and touch panel mounting applications in mobile phones and tablets
- Challenging component mounting in electronic devices where push-out and/or shock performance are required
- Mounting of batteries
- Mounting of parts in electronic devices where chemical resistance is needed (e.g. side keys, earphones)
- Mounting of front or backcover and sensors in wearable devices (e.g. smartwatch, wristband)
# MOUNTING TAPES

**Solutions for Screen Mounting Applications Where High Shock Is Required**

<table>
<thead>
<tr>
<th>Product group description</th>
<th>Advanced mounting tapes</th>
<th>Advanced mounting tapes</th>
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</thead>
<tbody>
<tr>
<td>PE foam</td>
<td>Acrylic foam</td>
<td>Synthetic foam</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PE foam</th>
<th>Acrylic foam</th>
<th>Synthetic foam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Conformable and high bonding</td>
<td>High shock and anti-repulsion</td>
</tr>
<tr>
<td>Reinforced</td>
<td>Flexible</td>
<td>Chemical resistant</td>
</tr>
</tbody>
</table>

### Product Group Description

- **Solution for very good shock resistance and push-out performance**
  - Good shock and push-out performance due to special acrylic adhesive with PE foam backing
  - Good die-cutting and reworkability

- **Solution for conformability and high bonding**
  - Very good bonding due to high-performance acrylic adhesive
  - Highly conformable foam backing provides excellent shock resistance and dimensional stability
  - 6264x: Available with PET reinforcement for better die-cutting and reworkability

- **Solution for excellent shock resistance and anti-lifting**
  - Excellent shock and bonding performance due to special chemical resistant adhesive
  - Black PE foam with excellent anti-lifting performance
  - 752xx: good shock, anti-repulsion

- **Solution for chemical resistant requirements**
  - Excellent resistance against polar and non-polar chemicals
  - Black PE foam with excellent cushioning performance, sealing properties, and reworkability
  - 6286x: superior bonding
  - 756xx: superior bonding
  - 759xx: excellent impact resistance

- **Solution for chemical resistance and superior shock**
  - Excellent shock and bonding performance due to cushioning acrylic foam
  - Special adhesive: excellent resistance against sebum and other chemicals
  - PET reinforcement

- **Solution for superior shock, quick bonding and residue free removability**
  - Special adhesive allows fast and residue free removability
  - Designed for high tack and quick bonding
  - Excellent shock performance
  - High performance on LSE substrates

### Application Examples

- **Touch panel and screen mounting applications in mobile phones and tablets**
- Mounting on uneven surfaces
- Backcover mounting for mobile phones and other electronic devices
- Demanding touch panel and screen mounting applications:
  - Mounting on uneven and curved surfaces
  - Mounting with ultra-slim die-cut design
  - Mounting for waterproof designs

- **Lens, screen and touch panel mounting in mobile phones and tablets**
- Backcover mounting
- Mounting with ultra-slim bezel design
- Mounting for curved and waterproof designs
- **Mounting of other parts where chemical resistance is needed**
  - e.g. side key, fingerprint sensor

- **Mounting of front or backcover and sensors in smartwatches**

- **Backcover mounting in smartphones and tablets**
- Component mounting in electronic devices
- Mounting of batteries

### Thickness Cluster [µm]

<table>
<thead>
<tr>
<th>5</th>
<th>10</th>
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<th>70</th>
<th>80</th>
<th>90</th>
<th>100</th>
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</thead>
<tbody>
<tr>
<td>114</td>
<td>226</td>
<td>338</td>
<td>450</td>
<td>562</td>
<td>674</td>
<td>786</td>
<td>898</td>
<td>1010</td>
<td>1220</td>
<td>1430</td>
</tr>
</tbody>
</table>

| 200 | 312 | 424 | 536 | 648 | 760 | 872 | 984 | 1100 | 1310 | 1520 |

| 156 | 268 | 380 | 492 | 604 | 716 | 828 | 940 | 1050 | 1160 | 1270 |

| 616 | 728 | 840 | 952 | 1064 | 1176 | 1288 | 1392 | 1504 | 1616 | 1728 |

| 221 | 333 | 445 | 557 | 669 | 781 | 893 | 1005 | 1117 | 1229 | 1341 |

| 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 | 1375 | 1500 |

| 120 | 180 | 240 | 300 | 360 | 420 | 480 | 540 | 600 | 660 | 720 |

### Application Examples (continued)

- **Touch panel and screen mounting applications in mobile phones and tablets**
- Mounting on uneven surfaces
- Backcover mounting for mobile phones and other electronic devices
- Demanding touch panel and screen mounting applications:
  - Mounting on uneven and curved surfaces
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- **Backcover mounting in smartphones and tablets**
- Component mounting in electronic devices
- Mounting of batteries

- **Mounting of front or backcover and sensors in smartwatches**

### Black/White

- Black
- White
FUNCTIONAL TAPES
Solutions for Demanding Applications

Bond & Detach
Stretch-release tapes
- White
- Transparent
- Light-blocking
- High shock
- High shock and highly tear resistant

Electrical conductive tapes
Isotropically conductive XYZ direction
- Non-woven
- Woven
- Single-sided matte black
- Single-sided foam

Product group description
- Stretch-release solutions for permanent bonding and residue-free detaching
  - Standard Bond & Detach adhesive ensures high bonding strength
  - Easy removability by longitudinal stretching
  - Solid black color design provides very good light-blocking

- Stretch-release solutions with high shock resistance
  - Special cushioning adhesive allows outstanding shock resistance and high bonding strength
  - Easy removability by longitudinal stretching
  - 64815: solid white color design for automated inline detection

- Solutions for grounding
  - Electrically conductive adhesive
  - Non-woven backing provides excellent conformability and adjustment to uneven surfaces
  - 6038x: best bonding properties in xyz
  - 60264: 17 µm ultra-thin
  - 6037x: high electrical properties in xyz

- Solutions for conductive gap-filling
  - Electrical conductive adhesive
  - Highly compressible and excellent cushioning properties
  - 6024x: perforated foam
  - 6068x: ultra-soft foam

- Solutions for grounding
  - Electrically conductive adhesive
  - Very good dimensional stability due to tear-resistant woven backing
  - 60374: high electrical properties in xyz

- Solutions for shielding and conductive covering
  - Black electrically conductive adhesive
  - Matte black coating with anti-fingerprint and solvent-resistant characteristic allows excellent EMI shielding
  - 60381: high EMI shielding property

- Conductive covering
  - Black electrically conductive adhesive
  - Matte black coating with anti-fingerprint and solvent-resistant characteristic allows excellent EMI shielding

- FPC grounding
- PCB grounding
- Conductive covering
- EMI shielding
- Cushioning and grounding

Application examples
- Mounting of high value or critical components with easy and clean removability
- Battery mounting in mobile devices
- Temporary fixation of components in production or transportation

tesa® Bond & Detach is the perfect solution for the mounting of batteries and other critical components, as it combines high bonding strength and easy removability during the product life cycle of an electronic device – from production process to recycling.

Thickness cluster [µm]

Application examples:
- Mounting of high value or critical components with easy and clean removability
- Battery mounting in mobile devices
- Temporary fixation of components in production or transportation
- FPC grounding
- PCB grounding
- Conductive covering
- EMI shielding
- Cushioning and grounding

<table>
<thead>
<tr>
<th>Application example</th>
<th>Thickness cluster [µm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting of high value or critical components with easy and clean removability</td>
<td>50 - 150</td>
</tr>
<tr>
<td>Battery mounting in mobile devices</td>
<td>150 - 300</td>
</tr>
<tr>
<td>Temporary fixation of components in production or transportation</td>
<td>300 - 600</td>
</tr>
<tr>
<td>FPC grounding</td>
<td>600 - 900</td>
</tr>
<tr>
<td>PCB grounding</td>
<td>900 - 1200</td>
</tr>
<tr>
<td>Conductive covering</td>
<td>1200 - 1500</td>
</tr>
<tr>
<td>EMI shielding</td>
<td>1500 - 1800</td>
</tr>
<tr>
<td>Cushioning and grounding</td>
<td>1800 - 2100</td>
</tr>
</tbody>
</table>

Adhesive materials:
- Transparent
- Translucent
- Black
- White
- Grey
**FUNCTIONAL TAPES**

Solutions for Demanding Applications

**Covering tapes**

<table>
<thead>
<tr>
<th>Single-sided PET</th>
<th>Acrylic polyamide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Matte black</td>
</tr>
<tr>
<td>Amber</td>
<td>Matte black</td>
</tr>
</tbody>
</table>

**Heat-Activated Films (HAF)**

- Reactive HAF®
- XPU (X-Linkable Polyurethane)
- LTR (Low Temperature Reactive)
- Thermoplastic

**Product group description**

- **Solutions for fixation, protection, and light-blocking**
  - Acrylic adhesive allows high peel strength and shear resistance
  - Very good light-blocking performance due to matte black PET backing

- **Solutions for covering and wrapping**
  - Repulsion-resistant adhesive
  - Polyimide film backing allows very good chemical and temperature stability, good insulation resistance, and flame-retardant properties
  - Very good scratch and fingerprint resistance

- **Solutions for extremely strong bonds on slim bonding areas**
  - Reactive adhesive allows superior chemical and heat resistance
  - 5849x: PET backing for improved oozing behaviour and surface protection

- **Solutions for extremely strong bonds on temperature-sensitive substrates**
  - Reactive adhesive that is activated at low temperatures and pressure
  - Provides high impact resistance

- **Solutions for very strong bonds on large bonding areas**
  - Thermoplastic adhesive
  - Requires only low bonding pressure
  - 8466 with non-woven backing

**Application examples**

- Light shielding
- Electrical insulation
- Protection of components (e.g., graphite sheets)
- Fixation of cables or constructive parts in flat panel displays
- Applications that require insulation properties and/or flame retardancy (e.g., ferrite sheet)
- Battery edge wrapping
- Structural bonding inside mobile devices
- Button fixation
- Speaker mesh bonding
- Mounting of decorative metal components
- FPC mounting
- Structural bonding inside mobile devices
- Backpainted bonding
- Bonding of materials with different thermal expansion
- Structural bonding of temperature-sensitive substrates like plastics, fabrics, and leather
- Mounting of sensitive electronic parts
- Mounting of decorative metal components
- Bonding of logo to housing
- Fabric bonding in accessories

Electronic devices are increasingly miniaturized and sophisticated. Complex designs require smaller bonding areas and higher tape performance. tesa Heat-Activated Film solutions meet the most challenging demands of manufacturers and consumers over the life cycle of the devices.
DISPLAY TAPES
Solutions for Optically Clear Applications

<table>
<thead>
<tr>
<th>Product group description</th>
<th>Standard</th>
<th>UV-blocking</th>
<th>UV-curable</th>
<th>Outgassing resistant</th>
<th>Moisture-controlling</th>
<th>Moisture-blocking UV-curable</th>
<th>Moisture-blocking</th>
<th>Foldable</th>
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<tbody>
<tr>
<td>General solutions for optically clear lamination</td>
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<td>- Lamination of rigid/rigid or rigid/flex</td>
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<td>- High bonding strength</td>
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<td>Solutions for optically clear lamination</td>
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<td>- Special adhesive provides UV protection for sensitive substrates</td>
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<td>- Excellent temperature and humidity resistance</td>
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<td>Solutions for optically clear lamination for plastic substrates</td>
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<td>- Lamination of rigid/rigid or rigid/flex</td>
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<tr>
<td>- Special adhesive provides resistance against outgassing of plastic substrates</td>
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<td>- UV curing after lamination</td>
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<td>Solutions for optically clear lamination of highly sensitive substrates</td>
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<td>- Special adhesive provides moisture control</td>
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<td>Solutions for backside-encapsulation of highly sensitive materials</td>
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<td>- Pressure-sensitive adhesive features easy lamination</td>
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</table>

**Application examples**

- Bonding of displays to cover glass or touch panels
- Bonding of displays to rigid substrates or lamination of two rigid substrates
- Bonding of displays to cover glass or touch panels where UV protection is needed
- Bonding of displays to rigid or flexible substrates
- Bonding of displays to plastic covers
- Lamination of films to rigid or flexible substrates
- Lamination of barrier films to rigid or flexible substrates
- Encapsulation of sensitive displays (e.g. OLED)
- Bonding of display rear side of the display to metal foil
- Rear-side encapsulation with lamination of rigid or flexible substrates
- Bonding of displays to curved or bendable devices

**Thickness (µm)**

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- 850
- 900
- >900

**Sample material available upon request**

- Transparent
- Beige
OUR VALUE PROPOSITION
Solutions That Go Beyond Tape

Every project comes with new challenges especially when considering material inputs. We overcome these challenges by partnering with you to create unique and specialized product solutions that meet the demands of the electronic industry. Our competencies go beyond tape to offer a more comprehensive and technical product package.

Our Offering

Based on our vast experience and our excellent adhesive technology, we are experts in adhesive tape solutions for the electronic industry. With our reliable solutions and exceptional service, we support you during the entire product development process to find the best tape solution for your requirements.

Individual support

Besides offering high quality products with the latest advanced technological solutions for many applications like component mounting, covering, lamination or encapsulation. We provide individual project support backed up by application engineers and research and development resources. Our technical experts in our Application Solution Center offer on-site support and evaluation of your individual application under laboratory conditions.

Contact us

Our consultants and engineers are just one phone call away to support you with:
- Process-simulation studies
- Assistance at your manufacturing site
- State-of-the-art testing equipment
- Tests under a wide range of environmental conditions
- Customized tests with customer substrates

Contact us and benefit from a strong partnership.

WORLDWIDE PRESENCE
A Global Partner

We are one of the leading global manufacturers of self-adhesive tapes. Our product solutions prove their performance in countless industrial sectors around the globe. Our sales offices, R&D centers, and production facilities offer worldwide support. Some of our key areas of focus include the automotive, electronics, public transportation, and aerospace sector.

Our consultants and engineers are just one phone call away to support you with:
- Process-simulation studies
- Assistance at your manufacturing site
- State-of-the-art testing equipment
- Tests under a wide range of environmental conditions
- Customized tests with customer substrates

Contact us and benefit from a strong partnership.

6 Regional Headquarters
Over 7,000 Products
14 Production & Converting Centers

Over 4,150 Employees
Located in 50 Countries

1 Global Headquarter

70 Patent Applications Annually
## FEATURES AND BENEFITS

### Layers

<table>
<thead>
<tr>
<th>Backings/carriers</th>
<th>Features and benefits</th>
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| PET               | - Excellent dimensional stability and tear resistance  
                     - Precise die-cutting  
                     - Available in transparent, white, black, and solid black color |
| Foam              | - PE and acrylic type  
                     - Very good sealing properties  
                     - High shock and tension absorption  
                     - Excellent leveraging of manufacturing tolerance  
                     - PET-film reinforcement optional  
                     - Available in low thicknesses to meet electronic designs |
| Non-woven         | - Highly conformable and shock-absorbing  
                     - Good dimensional stability  
                     - Translucent |
| Electric          | - Electrically conductive backings  
                     - Special foams  
                     - Non-woven, woven |
| Adhesives         | |
| Tackified acrylic | - Well-balanced adhesive systems for general mounting and lamination applications  
                     - Excellent aging resistance |
| Pure acrylic      | - High-temperature resistance  
                     - Excellent shear resistance  
                     - High UV resistance  
                     - Very low VOC and corrosive ion content  
                     - Available versions: standard and optically clear |
| Heat-activated    | - Heat-activated adhesive systems for extremely strong bonds. Available versions:  
                     - Reactive adhesive with superior chemical and aging resistance  
                     - Reactive adhesive with superior shock resistance  
                     - Reactive adhesive activated at low temperature and pressure  
                     - Thermostatic adhesive (noncuring) |
| Special           | - Available versions:  
                     - High shock- and push-out-resistant adhesives  
                     - Repulsion-resistant adhesive  
                     - Water-vapor-barrier adhesive  
                     - Silicone surface adhesive  
                     - Electrically conductive adhesive  
                     - Bond & Detach adhesive |
| Liners            | |
| Glassine paper    | - Paper liners with a thickness of 70 µm  
                     - Economical solution  
                     - Available in brown with blue tesa® logo and in white with red tesa® logo |
| PE-coated paper   | - PE-coated paper liners with a thickness of 120–130 µm  
                     - Excellent humidity resistance  
                     - Available in white with blue tesa® logo |
| PET               | - Filmic (PET) liners  
                     - Available in various thicknesses from 12–75 µm  
                     - Double-liner versions on request |

### Technical overview

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.
Our management system is certified according to the standards ISO 9001, IATF 16949, and ISO 14001.