Double Sided Tapes

for fixing, bonding, joining and laminating
Over 100 years of achievement
tesa tape Australia, a wholly owned affiliate of tesa SE, Germany, and part of the internationally renowned Beiersdorf group, has been successfully marketing and distributing tesa self adhesive tapes for over 40 years in Australia and for over 100 years in Europe. Paul Beiersdorf invented self adhesive tape in 1897 and since then there has been continuous research and development for new methods of fixing, mounting and joining.

This commitment to research, plus the determination to produce the best product possible for each application, has lead to the tesa brand becoming a world respected name in self adhesive tapes. tesa tape Australia is pleased to offer you many specialised tapes suitable for the unique operating conditions in Australia.

With tesa, one of the world’s leading self adhesive tape manufacturers, you get the best combination of technical expertise, quality assurance, efficient service and knowledge based on over 100 years of practical experience. tesa proudly stands behind its products and welcomes application enquiries.

The many advantages of double sided tapes
tesa double sided tapes provide modern, innovative and economical methods of fixing, mounting, joining and laminating.

The idea of joining objects together with adhesives has been around for a long time. The first substantive evidence of adhesives in practical use is found in Egypt nearly 4000 years ago.

Compared to the extremely slow development of adhesives based on vegetable and animal substances, the advances made with synthetic adhesive materials have been explosive.

The adhesive revolution
The emergence of scientifically based adhesives with known and reliable adhesive properties designed to perform predetermined tasks heralded the beginning of an adhesive revolution.

tesa has been in the forefront of this dynamic period and is an acknowledged leader in the self adhesive tape market.

When combined with a variety of carriers including PVC, polyester, non-woven tissue, fabric and foam, or used as a transfer adhesive – tesa double sided tapes offer a wide range of potential applications for fixing, mounting, joining and laminating with distinct advantages over traditional methods.

Technical advantages of tesa double sided tapes
The convenience of immediate use, speed and ease of application without tools, as well as simple and instantaneous application techniques are some of the advantages tesa double sided tapes offer to users.

The clean, quick and reliable results offered by the use of tesa double sided tapes are recognised by many major manufacturers. Items can be bonded with no damage to their surfaces. Holes, nails, screws, staples, contact adhesive and rivets are totally unnecessary in many applications, resulting in dramatic cost savings in labour and huge reductions in material waste.

Diverse materials such as glass and steel, ceramics and wood can be satisfactorily bonded. As the bond acts over the entire surface it reduces tension and bond weak spots which often lead to bonding failure.

Unlike contact adhesives, tesa self adhesive tapes provide continuous and uniform properties which are essential in most applications.

The tesa bond is clean and develops its full load resistance very quickly. The bonded surfaces retain their shape, they do not give off offensive colours or present any fire hazards.

The need to clean up work and stains associated with contact adhesives is eliminated. In certain applications tesa double side tapes can be cleanly removed without leaving any adhesive residue.
tesa 4900 PV9
Highly transparent acrylic transfer tape, reverse wound so that the adhesive is exposed on the outside of the roll. Available in 12mm or 19mm widths on a 25mm core for use with hand dispenser (60785/6013). Used for light duty product assembly, mounting of posters and signs, picture framing and splicing of paper and films.

tesa 4917
Translucent polypropylene carrier coated with an acrylic adhesive. Used as a re-sealable closure system for paper and plastic bags.
Different adhesive value on each side. With the combination of PP carrier and filmic release liner, hot-wire cutting is possible.

tesa 4934
Fabric carrier coated with an aggressive rubber adhesive providing excellent tack to rough surfaces. Used for temporary carpet laying (e.g. exhibitions) and general bonding applications particularly on rough surfaces.

tesa 4952
White, closed cell polyethylene foam coated on both sides with a modified acrylic adhesive. High shear resistance and largely resistant to humidity. Used for mirror mounting, self adhesive mounting of plastic profiles e.g. cable ducting, colonial bars and fixing of car mirrors.

tesa 4959
Non-woven paper tissue coated with acrylic adhesive. Provides high instant tack with good adhesive power and shear strength. Used for fixing decorative trim or mounting lightweight metal or plastic parts as well as splicing paper, corrugated paper, board or film.

tesa 4962
Non-woven paper tissue coated on both sides with a thick acrylic adhesive offers high initial tack and adhesion to a variety of substrates. Suitable for splicing heavy grades of paper and board as well as for many general fixing and mounting applications involving rough or textured surfaces e.g. leather.

tesa 4964
Tear resistant, flexible fabric backing with rubber based adhesive. The adhesive has a high coating weight, making it very suitable for mounting on rough surfaces. Used for the splicing of fabric webs, carpet laying, laminating of arch supports and heel protectors in the footwear industry and for attaching decorative architectural trims to pre-cast concrete moulds.

tesa 4965
Clear polyester film coated with a very aggressive acrylic adhesive with tear resistant polypropylene liner. Used for permanent mounting of plastic, metal and wood products. The product is excellent for die-cutting and laminating applications.

tesa 4967
Translucent polyester carrier coated with modified acrylic adhesive. tesa 4967 provides extremely high holding power even at elevated temperatures and also to low surface energy materials. It is used for bonding plastic and metal profiles and mouldings, even low surface energy materials. Due to its strong polyester carrier and reduced adhesive mass flow, tesa 4967 is suitable for die-cutting applications.

tesa 4970
Unplasticised PVC carrier coated with strong acrylic adhesive providing good shear strength and permanent bonding capabilities. Unaffected by plasticizer migration, light and age resistant. Adheres well to metallic materials, enamelled surfaces and plastics.
Used for providing a self-adhesive finish to metal and plastic trims, permanent carpet laying and for joining and holding a large range of materials where immediate strong adhesion, high shear strength and permanent bond are required.

tesa 4974
Sisal fabric carrier coated with an aggressive rubber adhesive providing excellent tack even to rough surfaces. Used for mounting plates in the flexographic printing industry, temporary carpet laying (e.g. exhibitions) and general mounting applications particularly on rough surfaces where easy removal is required without leaving adhesive residue. The adhesive is exposed on the outside of the roll. Available in 12mm or 19mm widths on a 25mm core for use with hand dispenser (60785/6013). Higher initial tack than tesa 4900 PV9. Used for self adhesive mounting of posters, mounting of fabric pattern books. Particularly high adhesion to plastics. Suitable for use on low surface energy substrates.

tesa 4985 PV9
Highly transparent acrylic transfer tape, reverse wound so that the adhesive is exposed on the outside of the roll. Available in 12mm or 19mm widths on a 25mm core for use with hand dispenser (60785/6013). Higher initial tack than tesa 4900 PV9. Used for self adhesive mounting of posters, mounting of fabric pattern books. Particularly high adhesion to plastics. Suitable for use on low surface energy substrates.

tesa 4985 PV3
Non-woven tissue carrier coated on both sides with a high tack, high shear acrylic adhesive. The thick adhesive coating allows a good bond, even on rough surfaces. The high temperature resistance makes the product suitable for the splicing of liners and fluting in the corrugated industry. tesa 50607 PV3 is also used for straight-line automatic splicing in viewpoints and magazine printing.

tesa 60900
Polyethylene carrier coated with thick isobutylene isoprene rubber adhesive, offering instant tack, high tensile strength and moisture resistance. Used for sealing sub-concrete membranes in critical areas, sealing grain bunkers, dam liners, rubber roofing membranes, corrugated roofing and other applications where a long lasting, waterproof seal is required.

tesa 60985
Paper carrier coated on both sides with a very high tack, aggressive acrylic adhesive. The tape has a treated paper release liner for easy handling and die-cutting.

tesa 60985
Polyester carrier coated on both sides with a very high tack, aggressive acrylic adhesive. The adhesive has a high initial tack and adhesion to a variety of substrates. Suitable for splicing heavy grades of paper and board as well as for many general fixing and mounting applications involving rough or textured surfaces e.g. leather.

Paper carrier coated on both sides with a very high tack, aggressive acrylic adhesive. The adhesive has a high initial tack and adhesion to a variety of substrates. Suitable for splicing heavy grades of paper and board as well as for many general fixing and mounting applications involving rough or textured surfaces e.g. leather.

Plastic bags.

Polyethylene foam carrier coated with a tackified acrylic adhesive, providing excellent tack to rough surfaces. The adhesive is exposed on the outside of the roll. Available in 12mm or 19mm widths on a 25mm core for use with hand dispenser (60785/6013). Higher initial tack than tesa 4900 PV9. Used for self adhesive mounting of posters, mounting of fabric pattern books. Particularly high adhesion to plastics. Suitable for use on low surface energy substrates.

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Plastic bags.
Why we make a wide range of double sided tapes

There is no universal adhesive capable of bonding all materials in all situations.

The variables are enormous.

The surfaces to be bonded could be smooth or rough, made of similar or dissimilar materials. Chemical reaction, plasticiser migration or adhesive rejection may have to be taken into consideration. On top of these variables the application could be exposed to sunlight requiring a modified adhesive to cope with temperature and UV radiation.

The application could be long term requiring a permanent bond, or temporary requiring the tape to be easily removed without leaving adhesive residue.

The type of load encountered in a particular application is also of utmost importance.

For these reasons tesa has developed a range of double sided tapes to meet the requirements of a myriad of market requirements.

<table>
<thead>
<tr>
<th>Product</th>
<th>Carrier</th>
<th>Type of Adhesive</th>
<th>Colour</th>
<th>Liner</th>
<th>Thickness without liner mm</th>
<th>Tensile Strength N/25mm</th>
<th>Elongation at Break %</th>
<th>Adhesion Power to Steel N/25mm</th>
<th>Temperature Resistance °C Short periods</th>
<th>Temperature Resistance °C Long periods</th>
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Spoolwound long length rolls

Continuity is an important requirement for efficient production in the large scale manufacture of products where maximising machine capacity is essential.

tesa double sided tape long length rolls reduce downtime through fewer roll changes as well as allowing for faster production. In addition, the quality of the end product is improved due to higher consistency of the production run and waste is reduced.

You will be impressed by the higher profit generated through increased productivity.

Technical Data

<table>
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<th>Specification</th>
<th>Value</th>
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<td>Inner diameter of core</td>
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<tr>
<td>Core width</td>
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<td>Winding width</td>
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<td>Diameter of spool, maximum</td>
<td>380mm</td>
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<tr>
<td>Weight</td>
<td>10 to 15kg</td>
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tesa self-adhesive tapes are used in many sectors to solve a variety of problems. Our publications contain numerous examples of such uses, intended to help towards a solution of your particular problems. Each tesa product has been developed for a particular range of applications. Nevertheless, experience has shown that even for one and the same objective, the exact requirements may differ from case to case. We therefore recommend that you carry out your own tests in each case to confirm that the tesa self-adhesive tape which you envisage using is appropriate for your particular application. The Advisory Section of our Technical Service Department will be happy to assist.

All information and recommendations are given by us in good faith, on the basis of practical experience, but without warranty.

tesa tape Australia Pty. Ltd.
ACN 005 484 290
ABN 16 005 484 290
Head Office:
PO Box 6900
Blacktown NSW 2148
Phone: (02) 9849 3929
Fax: (02) 9849 3928
Call Free: 1800 226 851
email: Sales.Australia@tesa.com
A Beiersdorf Company

tesa tape New Zealand Ltd.
PO Box 62055
Mt. Wellington Auckland
Phone: 9 5526 4444
Fax: 9 5526 4333
email: Sales.NZ@tesa.com