

Take a look

tesa® adhesive tapes for the signage industry
ASSORTMENT AND APPLICATION FOLDER



Benefit from our experience

tesa is one of the world's leading manufacturers of self adhesive tapes. Backed by more than a century of experience, the company's core product competence ranges from high-performance single-sided tapes to an extensive range of industry leading double-sided tapes for bonding applications.

By supplying industries such as automotive, electronics, and paper production, tesa proves its ability to fulfill the most demanding customer requirements on a daily basis.

Take a closer look:

- Worldwide availability of thousands of products
- Certified to ISO standards: ISO 9001:2008; ISO/TS 16949:2009; ISO 14001:2004
- On-time delivery
- Local technical expertise and support



tesa products help to improve your efficiency

Producing signs, which have to withstand demanding indoor and outdoor conditions for many years, requires expertise and high-quality products. tesa offers you both.

Use tesa tapes for sign manufacturing and installation to:

- **Save time**
 - Fast and easy application; no tools required
 - No curing time necessary
 - Reliable; eliminate claims and rework
- **Save costs**
 - Improve your process speed and reduce total process costs
 - Eliminate rework that is often necessary with mechanical fasteners
- **Enhance Design**
 - Optically clear bonds

tesa understands your challenges

tesa tapes can improve your processes.

Faster, Stronger, Better

If you are welding and using screws in combination with silicone sealants, you have the opportunity to streamline your process. tesa tapes provide a secure bond, as well as reliable, long-term sealing.

Applications for tesa tapes:

- Mounting during the production process
- Mounting during installation
- Masking during spray painting or powder coating
- Protection of sensitive surfaces
- Permanent bonding between stacked or layered materials

tesa® double-sided mounting tapes for the signage industry

Panel and letter mounting



For mounting large sheets of common materials such as Dibond, Reynobond, PMMA, Aluminium ...



1st Choice

tesa® ACX^{plus} 7054, tesa® ACX^{plus} 7055

- Acrylic core tape with a very high transparency
- Available in 2 different thicknesses of 500 µm & 1000 µm
- Very high initial and final bonding strength
- Compensates for differing thermal expansion of dissimilar materials
- Water & vapour tight, chemical resistant and no yellowing, even after long-term UV exposure and outdoor conditions
- Especially for the mounting of PMMA to steel, painted metal, aluminum etc.

General assembly



For metal and plastic parts with narrow constructive gaps.



1st Choice

Filmic Mounting Tape

- Very good bonding performance even on critical surfaces
- Excellent holding power at elevated temperatures
- High initial adhesion power and humidity resistance
- tesa® 4965 in case transparency is needed
- tesa® 4970 for superior initial tack and slightly rough surfaces

Specialty

tesa® 62934 Foam Mounting Tape

- Versatile adhesive for high immediate adhesion on numerous substrates
- High initial and ultimate adhesion level
- UV, water, aging and cold shock resistant
- Especially for rough surfaces and mounting for parts with a gap

LED mounting



For permanent bonding of LED's to common surfaces such as Dibond, Reynobond, PMMA, Aluminium ...



1st Choice

tesa® 62854 LED Mounting Tape

- High ultimate adhesive strength for a secure bonding performance
- High temperature resistance
- UV, water, aging and cold shock resistant
- Especially for the mounting of LED's

Specialty

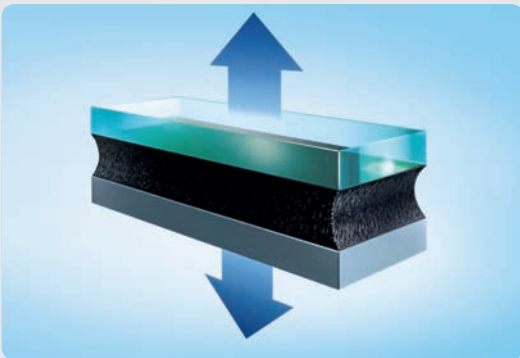
tesa® ACX^{plus} 7054, tesa® ACX^{plus} 7055

- Acrylic core tape with a very high transparency
- Available in 2 different thicknesses: 500 µm, 1000 µm
- Very high initial and final bonding strength
- Compensates for differing thermal expansion of dissimilar materials
- Water & vapour tight, chemical resistant and no yellowing, even after long-term UV exposure and outdoor conditions
- For high demanding LED applications and enhanced security

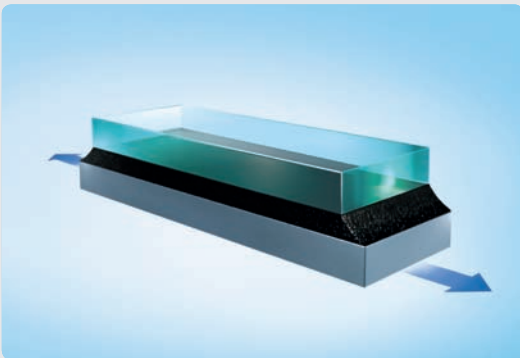
tesa® ACX^{plus} – Intelligent Bonding

tesa® ACX^{plus} – The core is the key

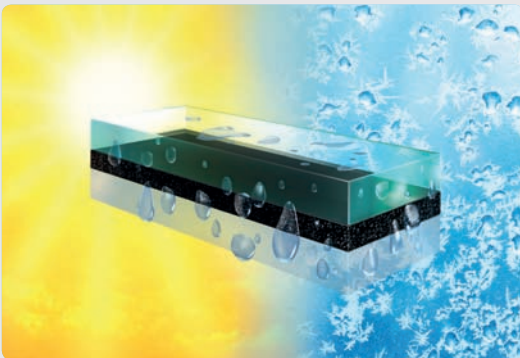
The high performance of tesa® ACX^{plus} is based on its viscoelastic acrylic backing and leads to powerful bonding, stress relaxing properties and excellent temperature and weather resistance. Additionally we offer specially formulated adhesion promoters, a wide range of application equipment and a worldwide technical advisory service. This is why tesa® ACX^{plus} stands for Intelligent Bonding solutions.



■ Bonding Power



■ Stress Dissipation

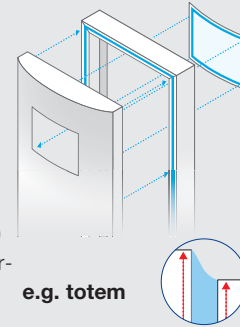


■ Temperature and Weather Resistance

tesa® ACX^{plus} advantages and opportunities

Bonding of different materials

- The viscoelastic backing material compensates for different thermal elongation factors
- Especially suitable for the bonding of metals (aluminium, steel) with plastics (PMMA, PVC, PC)
- Security due to high performance adhesive system



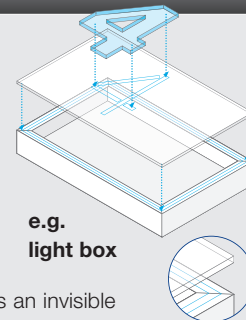
e.g. totem

Plenty of different materials are in use for the production of signs. Our ACX^{plus} products even offer you the opportunity to bond materials with highly different thermal elongation factors.

➔ More freedom in the selection of materials

High transparency

- Very high transparency (ultra clear)
- No yellowing even after long term UV and humidity exposure
- Bubble free application supported by product consistency

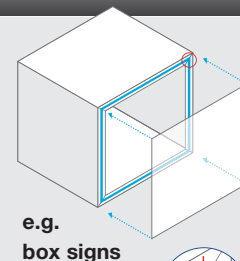


e.g. light box

The high transparency allows an invisible bond of transparent materials. This results in a better appearance and higher value perception of the end product.

Sealing

- Vapour & water tight due to the solid acrylic backing material
- Very good conformability leads to perfect sealing even on rough surfaces
- Perfect sealing, even on the edges



e.g. box signs

Instead of screwing or welding with additional sealing, the tesa® ACX^{plus} tapes provide a secure bond and reliable seal in one. By applying the tape in one of the ways shown, a perfect result will be achieved.

tesa® tapes for masking and general purpose applications

General purpose



tesa® 4688 Shiny Cloth Tape

- Strong PE coated tape, easy unwinding properties
- Very good adhesion, but easy to remove without residue
- Available in several colors for marking purposes
- ➔ Especially for edge protection during transport and storage

tesa® 4613 Standard Duct Tape

- Utility grade duct tape
- Very good adhesion on rough surfaces
- Very flexible due to low thickness
- ➔ The all-round product for bundling, protection and packaging

tesa® 53948 Electrical Insulation Tape

- Electrical insulation tape certified according to IEC 434-1
- Available in 10 different colors
- ➔ For bundling & marking of wires

tesa® 4120 Packaging Tape

- Used on manual and automatic sealing equipment

tesa® Cleaner:

- Evaporates without leaving residues
- Cleaning of surfaces for optimum bonding results with adhesive tapes and spray glues
- Excellent cleaning results on a variety of surfaces, such as plastic and metal

tesa® Glues:

- For clean, cost efficient, secure and fast bonding of large surfaces – available in 3 different qualities

tesa® Remover:

- Reliable removal of glue residues
- Evaporates without leaving residues

Masking



tesa® 4341 High Temperature Masking Tape

- Masking of paint jobs with oven drying up to 140°C
- High tack and adhesion, high holding power
- Removable without leaving residues
- ➔ Especially for oven drying processes and applications where a high adhesion level is needed

tesa® 4323 General Purpose Masking Tape

- Suitable for general purpose applications
- Temperature resistant up to 50°C
- ➔ For bundling & protecting during production, storage and transportation

tesa® 4334 Precision Mask

- Suitable for precise applications
- Guarantees especially sharp edged finishing
- Suitable for delicate surfaces
- ➔ Also suitable for all applications where residue free removability, even after a long period, is needed

tesa® 4174 Fine Line

- Especially for two-tone applications with subsequent oven drying
- Flexible and does not shrink
- Very good conformability to irregular shapes
- ➔ Outstanding workability in combination with the high performance, makes it the first choice for all curved applications

tesa® 50600 Powder Coating Tape

- Green, conformable
- Temperature resistant up to 220°C
- Provides sharp paint edges
- Also available on liner
- ➔ The solution for masking during powder coating processes

Mounting

Product	Backing	Thickness without liner [µm]	Adhesive	Color	Peel adhesion in N/cm - after 14 days		
					Steel	Alu	PMMA
tesa® 7054	acrylic	500	pure acrylic	transparent	19.0	19.0	12.0
tesa® 7055	acrylic	1000	pure acrylic	transparent	24.0	24.0	17.0
tesa® 4965	PET	205	tackified acrylic	transparent	14.0	12.6	12.0
tesa® 4970	PVC	240	tackified acrylic	white	14.8	12.4	n.a.
tesa® 62854	PE-foam	800	pure acrylic	black	≥17.0*	≥17.0*	n.a.
tesa® 62934	PE-foam	800	tackified acrylic	white, black	≥17.0*	≥17.0*	n.a.

* foam split

Masking

Product	Backing	Total thickness [µm]	Adhesive type	Adhesion on steel [N/cm]	Tensile strength [N/cm]	Temperature resistance [°C/1h]
tesa® 4341	special creped paper	170	natural rubber	4.7	53	140
tesa® 4323	slightly creped paper	130	natural rubber	3.0	34	50
tesa® 4334	extra thin and flat paper	90	acrylic	1.9	25	120 (30min.)
tesa® 4174	PVC	110	natural rubber	3.4	25	150
tesa® 50600	PET	55	silicone	3.5	>40	220 (30min.)

General purpose

Product	Backing	Total thickness [µm]	Adhesive type	Adhesion on steel [N/cm]	Tensile strength [N/cm]	Temperature resistance [°C/1h]
tesa® 4688	PE coated cloth	260	natural rubber	4.7	52	110
tesa® 4613	PE laminated cloth	180	natural rubber	4.1	34	95
tesa® 53948	soft PVC	102	natural rubber	2	23	90
tesa® 4120	PVC film	49	natural rubber	2	43	60

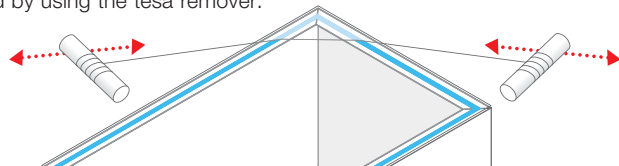
Hints

Demounting

- Removing or reworking purposes
- Maintenance or inspection

In case you have to separate two parts mounted with a tesa® ACX^{plus} tape or a tesa PE foam you just need a wire and 2 handles. As shown in the illustration you can easily cut the tape starting at one of the edges. The remaining tape and adhesive residues can easily be removed by using the tesa remover.

e.g. shop signs



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 advise you.

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