

tesa® – Assistance in Design, Assembly and Maintenance for Mobility on Air

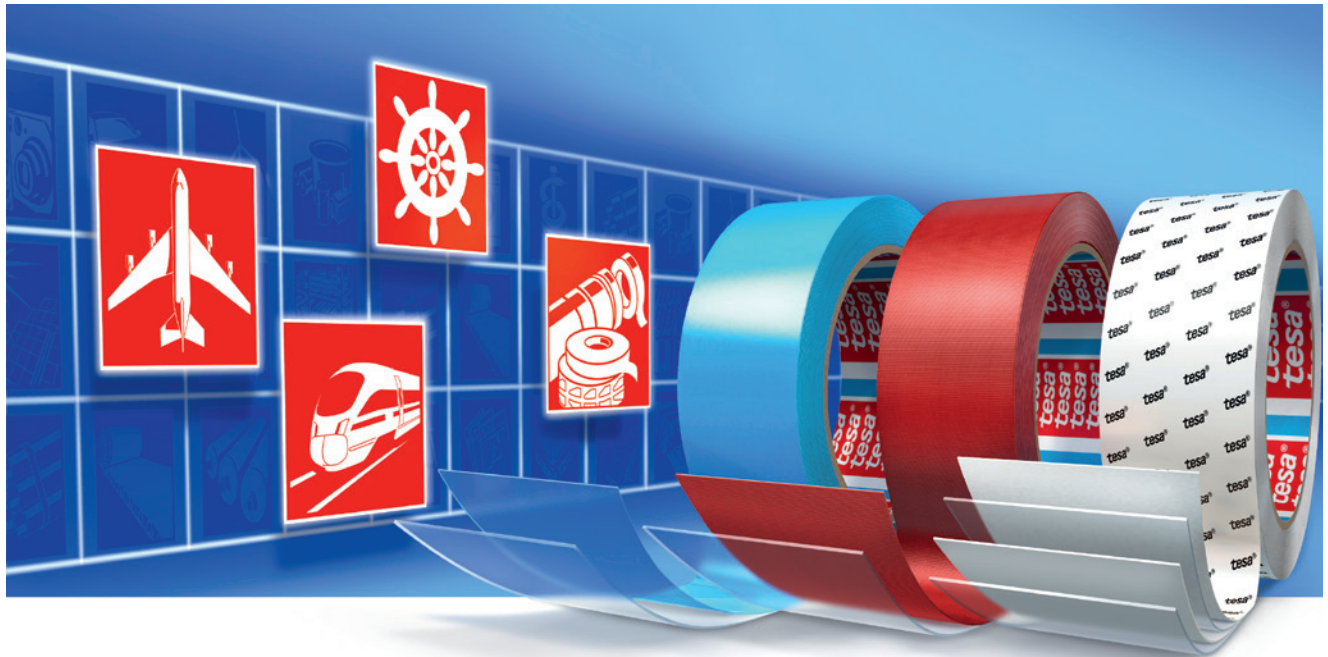


tesa® Solutions for the Aviation Industry

APPLICATION FOLDER



tesa® adhesive solutions for greater efficiency in your processes.



tesa – a globally active technology company. For over 100 years, the company has developed and produced adhesive tapes in Hamburg for an unimaginable range of different markets and applications. Today, tesa offers its customers more than 7000 different types of adhesive tape, produced from its plants in Europe, Asia and the USA. The adhesive solutions are also produced in tesa's own polymerization- and mixing facilities, so that the company can offer the perfect, customized solution appropriate for each individual application.

tesa – global service. tesa is represented in over 100 countries worldwide. Using sales offices and warehouses all over the world, tesa can sell directly to customers in over 50 different countries and customers in 50 further countries can gain access to the wide tesa® assortment through our partners. In our application and test laboratories in Hamburg, Asia and the USA, we not only develop adhesive tapes for our customers, but also support them with any technical queries.

tesa – supplier of a full assortment. Whether the application is for mounting or fixation, masking while painting, for surface protection, wire harnessing or any form of packaging; tesa can offer you the appropriate adhesive solution.

Your advantage: an international partner with service right around your corner. The high and reliable quality of our products, services and advice is certified and steadily controlled. We place great value on being as close to the working processes and applications of our customers as possible, and this forms the basis of our profound understanding of customer needs and of the future development of the tesa® assortment.

Main benefits:

- A complete assortment for huge adhesive tape applications
- New adhesive systems and innovative technologies
- Individual solutions for the effective application of adhesive tapes
- Our own sales offices in over 50 countries worldwide
- tesa® tapes and application specialists can be found near any substantial industrial centre
- Knowledge of your working processes

INTERIOR:

Temporary Surface Protection (inside)



Protection of delicate inside surfaces during

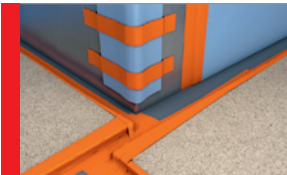
production, transportation and maintenance work

Characteristics:

- Supple film backing
- Secure adhesion on delicate surfaces
- Residue-free removal
- No color or gloss change

Transport/surface protection, best tesa® 51136

Temporary Fixation



Short-term securing of protective strips or panels

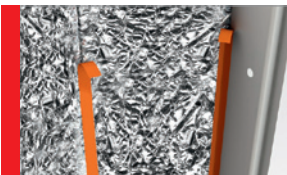
on the floor or at critical places on passageways

Characteristics:

- Stable, flexible backing
- Sufficient adhesive strength
- Hand-tearable
- Available in different colors

Speciality tapes, best tesa® 4287, 4688

Insulation Protection



Protection against heat or dust transfer

Characteristics:

- Heat-reflecting aluminum backing
- Secure adhesion
- Solutions with or without release liner
- Repels oil, acid and moisture

Aluminium tapes, best tesa® 50565

Permanent Mounting



Permanent securing of

metal or plastic parts on to different surfaces

Characteristics:

- Tackified acrylic composition
- Very high adhesive strength
- Suitable for smooth and rough surfaces
- Backing solutions that meet requirements
- UV, ageing and moisture-resistant
- High adhesive application

Double-sided tapes, best tesa® 4965

Panel Mounting



Large-area adhesion of plastic or

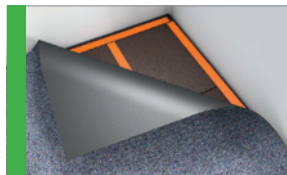
aluminum panels on to different surfaces

Characteristics:

- Tackified acrylic composition
- Very high adhesive strength
- Suitable for smooth and rough surfaces
- UV and ageing-resistant
- High adhesive application

Double-sided tapes, best tesa® 4965, 7076

Carpet Fixing



Secure adhesion of carpets and easy removability

for possible exchange of artificial floor coverings

Characteristics:

- Supple backing
- High adhesive strength on uneven surfaces
- Hand-tearable

Double-sided tapes, best tesa® 4964, 51960

Pre-mounting of Small Parts



Preliminary securing of small parts to ensure

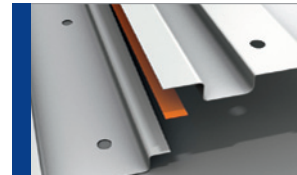
better positioning before mechanical securing

Characteristics:

- Ideal initial adhesive strength
- Adhesion also on difficult surfaces
- Quick and easy application
- Ideal to drill or screw through

Double-sided tapes, best tesa® 4964, 51960

Vibration and Noise Damping



Separation of different types of materials to prevent rattling, friction or

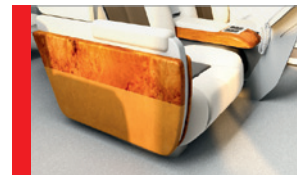
squeaking and also to prevent sound conduction

Characteristics:

- Single-sided adhesive products
- Backing materials that meet requirements (non-woven, cloth or film)
- Abrasion resistance to meet requirements
- Sealing properties if required

Speciality tapes, best tesa® 54506, 60608

Permanent Surface Protection



Permanent protection of

exposed areas, for interior and exterior use

Characteristics:

- Highly transparent PU backing film
- UV resistant
- Resistant to oil
- High adhesive strength

Surface protection, best tesa® 54994 PV3

Identification Label



Permanent
identification

or marking of individual components

Characteristics:

- Not sensitive to thermal or chemical effects
- Label destroyed in the event of manipulation
- High-contrast design
- Flexible for easy inscription

Speciality tapes, best tesa® 6940

CONSTRUCTION / MRO:

Masking Work with High Drying Temperatures



Masking work when painting

Characteristics:

- Slightly creped with very good adhesive strength
- Highly resistant to wet grinding
- Very good adhesion to paint and fillers
- Residue-free removal
- Temperature resistant up to 120°C
- Especially stretchable and flexible; suitable for slight curves

Premium Masking tapes, best tesa® 4309

Masking Work with Medium Drying Temperatures



Covering surfaces when painting

Characteristics:

- Finely creped with good adhesive strength
- Good resistance to wet grinding
- Good adhesion to paint and fillers
- Residue-free removal
- Temperature resistant up to 80°C

Standard Masking tapes, best tesa® 4317

Large Area Masking



For fast and simple covering of large areas

Characteristics:

- For fast, large-scale protection against spray paint
- Masking paper with very good paint absorption
- Tear-resistant HPDE masking film with perfect adhesion
- Handheld roller for easy, direct application
- Temperature resistant up to 120°C

Special Adhesive tapes, best tesa® 4378

Straight-Line Masking



Sharp-edged masking of long, straight lines

Characteristics:

- Thin PVC backing
- Tear-resistant for quick removal
- Good adhesive strength
- Residue-free removal
- Temperature resistant up to 70°C

Special Masking tapes, best tesa® 4104, 4334

Curved Fine-Line Masking



Sharp-edged

masking for complex and curved lines

Characteristics:

- Wafer-thin, soft PVC backing
- Very high adhesion, even on plastics
- Quick and easy to remove
- Temperature resistant up to 150°C

Special Masking tapes, best tesa® 4174

Masking of Rubber Window Seals



Masking around window edges on rubber-seals and painted surfaces. Complete surface protection of the window for the stripping, priming and finishing process

Characteristics:

- Slightly creped backing
- Very good adhesion to paint and fillers
- Ideal adhesion to rubber, plastic and glass
- Residue-free removal
- Temperature resistant up to 100°C

Premium Masking tape, best tesa® 4308

Temporary Surface Protection (outside)



Durable protection of outside surfaces with a combination of

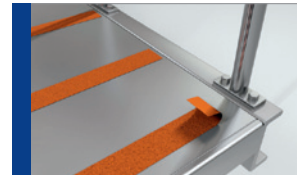
adhesive tape and covering masking materials

Characteristics:

- Stable, tear-proof backing
- Excellent adhesion on smooth surfaces
- Residue-free removal
- UV resistant
- Weathering resistant (up to 12 months)

Transport/surface protection, best tesa® 50530 PV1

Anti-Slip Protection



Protection

against slipping on steps or walkways

Characteristics:

- High adhesive strength
- Very good weathering resistance
- Rough anti-slip design
- Different versions with warning stripes and fluorescent colors

Safety tapes, best tesa® 60950/60953

Floor Marking



Permanent

marking of dangerous or restricted zones


Characteristics:

- Robust and rugged PVC backing
- Very high adhesive strength
- UV resistant
- 5 colors/combinations available

Speciality tapes, best tesa® 4169



Product Passport

Product	Color-Code	Type of Adhesive	Type of Backing	Thickness [µm]	Adhesion / Steel [N/cm]	Temperature resistance [C°]
tesa® 4104		Natural Rubber	PVC	67	3,8	70
tesa® 4169		Acrylic	SPVC	180	1,8	70
tesa® 4174		Natural Rubber	SPVC	110	3,4	150
tesa® 4287		Natural Rubber	MOPP	80	4,2	100
tesa® 4308		Natural Rubber	Low Crepped Paper	170	4,0	100
tesa® 4309		Natural Rubber	Low Crepped Paper	170	3,5	120
tesa® 4317		Natural Rubber	Low Crepped Paper	130	3,3	80
tesa® 4334		Acrylic	Flat Back paper	90	1,9	120
tesa® 4378		Natural Rubber	Low Crepped Paper	170	3,5	120
tesa® 4434		Natural Rubber	Thick paper	670	2,7	80
tesa® 4688		Natural Rubber	PE Coated Cloth	260	4,7	110
tesa® 4848 PV1		Acrylic	PE	48	0,8	Outdoor 4 months
tesa® 4964		Natural Rubber	Cloth	390	7,2 / 7,0	110 / 40
tesa® 4965		Modified Acrylic	PET	205	14,0	200 / 100
tesa® 6940		Acrylic Film	Acrylic	100	1,8	270 / 180
tesa® 7076		Pure Acrylic	Acrylic Foam	1500	35,0	220 / 120
tesa® 50530 PV1		EVA	PE/PP	79	0,9	Outdoor 12 months
tesa® 50565		Acrylic	50µm Alu	90	6,0	160
tesa® 51136		Acrylic	PE	105	2,4	Indoor
tesa® 51960		Modified Acrylic	Cloth / PP component	250	4,7 / 9,0	120 / 60
tesa® 54506		Modified Acrylic	PET Fleece	800	on request	100
tesa® 54994 PV3		Acrylic	PU-Film	360	4,3	100
tesa® 60608		Modified Acrylic	PET Fleece	320	on request	100
tesa® 60950/60953		Acrylic	PVC Coated	810	7,0	Outdoor



Masking



Mounting



Surface protection



Others



The tesa Group – Worldwide

With offices in over 50 countries, 7 production / converting facilities, and more than 3700 employees around the world, tesa is one of the world's largest manufacturers of pressure-sensitive adhesive tape.

- Production
- Sales Office

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, expressed 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.

HEADQUARTERS

tesa SE

Quickbornstrasse 24
D-20253 Hamburg, Germany
Phone: +49 40 4909 101
www.tesa.com
email: industry@tesa.com



The tesa Management System complies with the industry's most important certification standards