



Adhesive tape solutions for the aerospace industry

Engineered to perform under extreme conditions

About us

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.



Shaping the future together

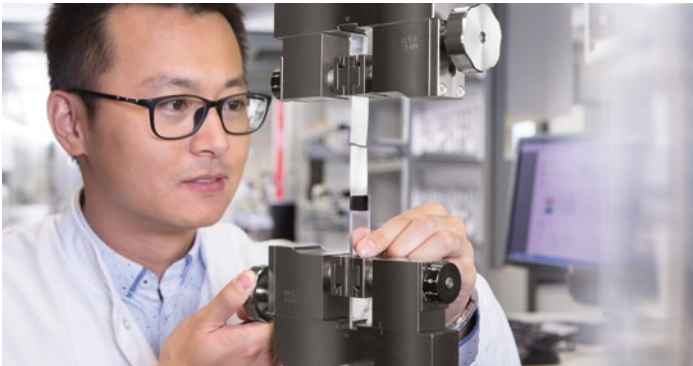
Our approach to product development is heavily influenced by your demands. We take pride in obtaining a deep level of understanding into your process and requirements. Through this approach you become a key component of our product development process. We are constantly investing into new and innovative technology to meet the strenuous design demands of the aerospace industry.



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 aerospace market. Our competencies go beyond tape to offer a more comprehensive and technical product package.



Providing extensive R&D and lab support

Our technical centers provide exclusive testing by analyzing aerospace materials in combination with our assortment of adhesive tape solutions. We conduct customer specific tests every day of the year. Our tests include, but aren't limited to, adhesion performance, FAR 25.853 flammability, and climate cycling tests.



Consulting and on-site support

Choosing the right material is critical for performance and safety in the aerospace sector. Our industry experts help improve overall efficiency by proposing solutions that decrease downtimes and promote lightweight and more fuel-efficient solutions. We frequently invite customers to our R&D facilities to discuss specific product needs and testing requirements.



Enabling more efficient processes

Benefit from cost-efficient solutions designed specifically for your production process. Our tape dispensers range from hand held to fully automatic dispensing systems that enable:

- Easy handling
- Fast and reliable production
- Consistent quality
- Higher process efficiency

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.



Applications areas in aerospace

Interior applications

Adhesive solutions used inside the aircraft cabin and internal structures to fix, mount, protect, or process components.

They offer a flexible alternative to mechanical fastening and support clean, efficient installation while meeting strict FST requirements.



Exterior applications

Adhesive solutions used on the outer structure of the aircraft or exposed areas during manufacturing and processing.

These applications require high resistance to environmental influences such as temperature, UV exposure, and mechanical stress.



tesa® Solutions for the aerospace industry

A global partner

The aerospace industry is one of the most demanding and highly regulated markets. Manufacturers face increasing pressure to ensure safety, reliability, and efficiency while meeting strict certification requirements.

This creates a strong demand for certified, high-performance solutions that support both production processes and long-term application performance.

Why tesa for aerospace?

We combine proven adhesive technology with deep application understanding to support aerospace customers worldwide.

Trusted solutions for aerospace manufacturing

- Approved according to key aerospace standards
- Designed for demanding environments
- Application-driven solutions for real use cases
- Global support through partners and distribution networks

Partners:



**Thales | Mubea | Safran | Diehl Aviation | Airbus | Leonardo
MTU Aero Engines | ATR | Satys Air | Livery Bombardier
Dassault Aviation | Airbus Helicopters | Lufthansa Technik**

Fly-away applications

Solutions that remain on the aircraft during operation and are fully qualified according to aerospace standards.

They are designed for long-term performance, reliability, and traceability in critical applications.



* This image was created using artificial intelligence.

Non-fly-away applications*

Solutions used during manufacturing, assembly, or maintenance and removed before the aircraft enters operation.

They support efficient processes and ensure clean removal without residues or surface damage.



Interior trim mounting: tesa® 4965



**Mounting emergency escape
path lighting and floorings:**
tesa® 45020 removable



Security label and label mounting solutions: tesa® 6930 Laser Marking

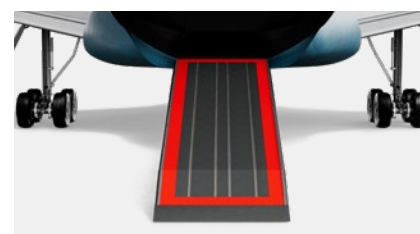
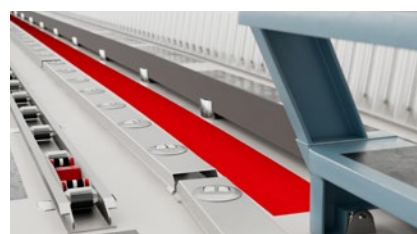


**Cockpit display mounting
and electronics solutions:**
tesa® ACXplus, OCA and ECT series



Cockpit solutions:
e.g. tesa® ACX^{plus} 7805, tesa® ECT and
tesa® TCT conductive tapes

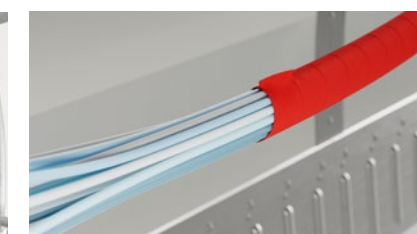
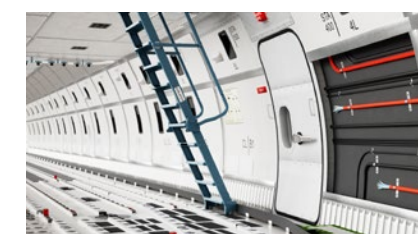
Anti-slip protection : tesa® 60950, tesa® 60951, tesa® 60953



Carbon fibre to metal bonding:
tesa® HAF 84xx series

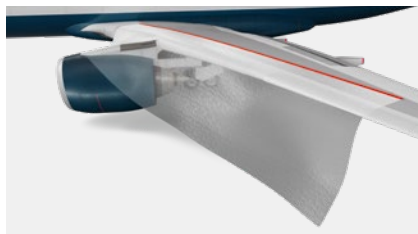


Cable mounting and protection solutions: tesa® 4820





Impact surface protection during maintenance: tesa® 50995, tesa® 4438



Straight-line masking : tesa® 4334 or tesa® 4104



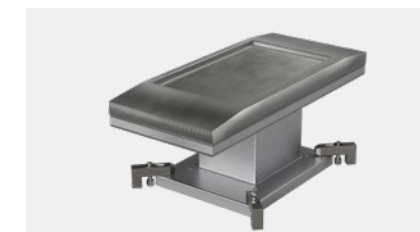
Protection during sandblasting: tesa® 4434, tesa® 4432, tesa® 4651



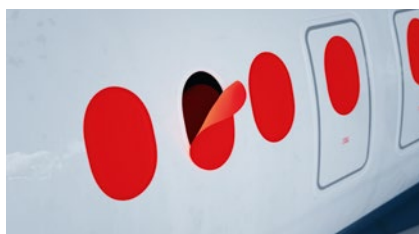
Curved line and design masking: tesa® 4174 or tesa® 4244



Composite manufacturing:
Temporarily fix, honey comb milling material during manufacturing: tesa® 4964 or tesa® 4661



Large area masking : tesa® 4368, tesa® 4388, tesa® 4392

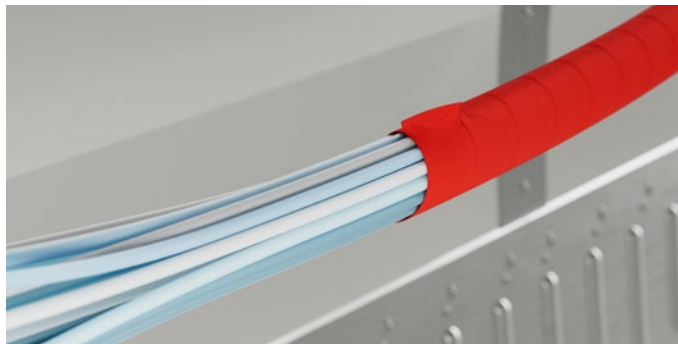


Window and window seal masking: tesa® 4308 or tesa® 4244



Product assortment

Airbus approved Fly-Away articles



Cable mounting & protection tesa® 4820

- Secure cable fixation and protection in aircraft interiors
- High abrasion resistance for demanding environments
- Low-friction PTFE surface with excellent release properties

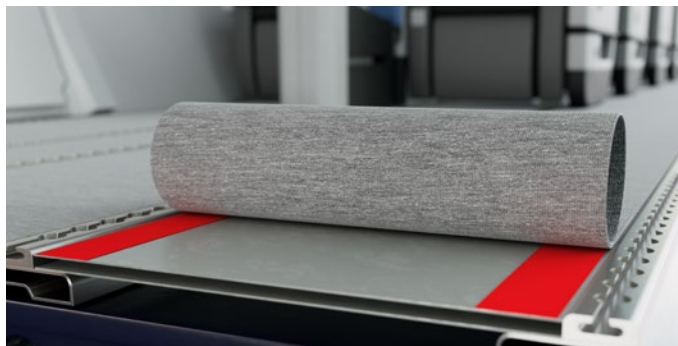
✓ **Airbus approved (ABS 5330)**



Escape Path Marking tesa® 4965

- Reliable bonding for safety-critical marking
- High performance under environmental stress
- Strong adhesion on a wide range of surfaces

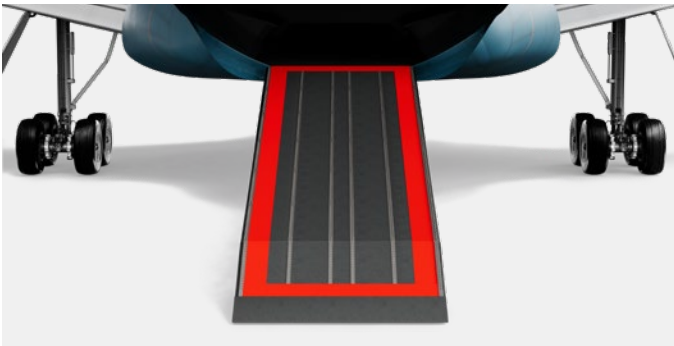
✓ **Airbus approved (ABS 5648)**



Carpet fixation (removable) tesa® 45020

- Flame-retardant and halogen-free adhesive
- Secure fixation with clean removability
- Designed for carpet installation and replacement

⚠ **Approval ongoing (ABS5648)**



Cargo Anti-Slip Protection tesa® 60955

- High-performance anti-slip surface (R13)
- Conformable to edges and irregular surfaces
- Durable and resistant to chemicals and wear

✓ **Airbus approved (ABS 5092)**

Process and Non-Fly-Away applications

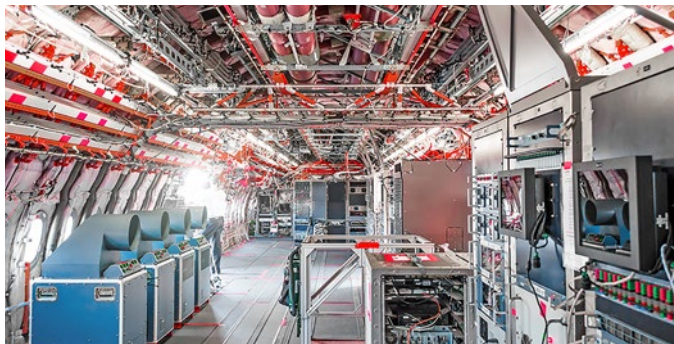


Masking and surface protection*

- Precision masking for painting and sealing
- Surface protection during manufacturing processes



Protection of surfaces and components throughout manufacturing processes



Manufacturing and process support

- Temporary bonding and fixation solutions
- Support for composite and assembly processes



Supporting efficient processes and reliable production



Protection and safety applications

- Anti-slip and safety marking solutions
- Protection against impact and abrasion



Enhancing safety and protecting people, components and tools



Interior assembly and functional solutions

- Mounting, insulation, and cable management
- Removable and repositionable solutions



Supporting assembly, installation and maintenance activities



Supporting efficiency, protection, and process reliability — without the need for certification

* This image was created using artificial intelligence.

Application guide – Products & specifications

	Product	Description	Backing	Adhesive	Thickness [µm]	Temp.-res.	Application	Features / Specs
Fly	tesa® 4965	Double-sided mounting	rPET	Acrylic	205	100°C / 212°F	Mounting emergence path lighting, signage and emblems	UL 969 file: MH 18055, Airbus approved: AIMS/AIPS 10-05-031-01 and ABS 5648, Flame retardant acc. FAR 25.853 - 12 sec ignition vertical test between alu-films
	tesa® 8853	Double-sided mounting	Tissue	Acrylic	50	260°C / 500° F short-term	FFC and antenna mounting	
	tesa® 45020	Double-sided mounting	PET	FR acrylic	190	Flame retardant	Floor laying removable, differential adhesion	Flame retardant acc. to FAR 25.853 - 12 sec ignition vertical test between two alu-sheets and
	tesa® 755xx	Transfer-tape mounting	None	Acrylic	50 / 75 / 125	100°C / 212°F	Adhesive for label laminations	UL 969 file: MH 18055
	tesa® 4952	Double-sided mounting	PE-foam	Acrylic	1.150	80°C / 176°F	Mirror mounting	FAR 25.853 - 12 sec ignition vertical test between alu-films
	tesa® 4964	Double-sided mounting	Cloth	Rubber	390	110°C / 230°F short-term	Composite honeycomb milling and floor laying	Flame retardant acc. to FAR 25.853 - 12 sec ignition vertical test between alu sheets
	tesa® 707x	Acrylic foam mounting	Acrylic foam	Pure acrylic	500 / 1.000 / 1.500 / 2.000	120°C / 248°F	Trim and profile mounting	UL 746C file: E309290, UL 879 file: E479260, AIPI 03-02-018, Flame retardant tesa 7074 (FAR 25.853 - 12 sec ignition vertical test between 2 alu sheets)
	tesa® 7812	Acrylic foam mounting	Acrylic foam	Acrylic	1.200	100°C / 212°F	Lens and display mounting	UL 746C file: E309290 + UL 879 file: E479260
	tesa® 50565	Aluminum single-sided	Aluminum	Acrylic	90	160°C / 320°F	Sealing of ducts or joints of insulation material	Flame retardant acc. UL510 A file: E505272, FAR 25.853 - 12 sec ignition vertical test on an alu film
	tesa® 60955	Anti-slip tape conformable	Aluminum carrier coated with mineral particles	Acrylic	700	120°C / 248°F	Conformable anti-slip tape for ilrregular surfaces	Slip resistance R13 according to DIN 51130., Flame retardant acc. to FAR 25.853 - 12 sec ignition vertical test on Alu-sheet, Airbus approved: AIMS/IPS 10-08-004-01
	tesa® 4820	Teflon® single-sided	Teflon	Silicone	100	220°C / 428°F short-term (60min)	Cable mounting and abrasion protection	Airbus approved: AIMS/AIPS 10-05-033-01, FAR 25.853 - 12 sec ignition vertical test on Alu sheet
	tesa® 6930	Laser marking label	Acrylic	Acrylic	95	120°C / 248°F	Security labeling	UL 969 file: MH 18055
	tesa® 8402	Structural bonding film	Nitrile rubber / phenolic resin		125	n.a.	Carbon fiber to metal bonding	Bonding strength and dynamic shear: 12 N/mm²
Non fly	tesa® 4174	Fineline masking	PVC	Rubber	110	150°C/60min 302°F/60min	Curved masking	Excellent conformability for multidimensional 3D surfaces
	tesa® 4244	Fineline masking	PVC	Rubber	110	140°C/60min 284°F/60min	Window seal masking	Residue-free removal on painted and non-painted substrates
	tesa® 4334	Paper masking	Washi paper	Acrylic	90	150C°/30min 302°F/30min	Indoor masking (up to 6 months) Outdoor masking (up to 8 weeks)	Precise and flat paint edges, stick flush to surfaces to prevent paint tears
	tesa® 4308	Paper masking	Creped paper	Rubber	150	100°C/60min 212°F/60min	Temporary protection of production materials, parts, and assemblies during manufacturing, storage, and transportation with PSAs	BAC5034-4 and AIPI 06-02-007
	tesa® 4316	Paper masking	Creped paper	Rubber	140	120°C/30min 248°F/30min	Suitable for all general masking applications, can be used during a drying process	AIPI 03-02-018
	tesa® 4368	Paper masking and protective film	Paper / HDPE	Rubber	140	100°C/30min 212°F/30min	Large area masking	2-in-1 solution for masking off and protecting large areas
	tesa® 4434	Paper masking	Flat paper	Rubber	670	120°C/30min 248°F/30min	Extra strong and resistant paper backing for sandblasting	AIPI 03-02-018 and AIPI 06-02-007
	tesa® 4443	Paper masking	Flat paper	Rubber	330	100°C/60min 212°F/60min	Strong and resistant paper backing for sandblasting	Sandblasting durability of 6 sec./4 bar
	tesa® 4432	Paper masking	Flat paper	Rubber	330	100°C/60min 212°F/60min	Strong and resistant paper backing for sandblasting	AIPI 03-02-018 and AIPI 06-02-007
	tesa® 4331	Paper masking	PET / non-woven	Silicone	110	200°C/30min 392°F/30min	High oven drying processes	High thermal resistance and residue free removal
	tesa® 506xx	Filmic masking	PET	Silicone	55 / 80	220°C/30min 428°F/30min	Powder coat masking / surface protection	Residue-free removability for masking and surface protection applications
	tesa® 4661	Cloth single-sided	Cloth	Rubber	300	140C°/30min 284°F/30min	Fixation in composite honeycomb milling	High adhesion, even on rough surfaces
	tesa® 4657	Cloth single-sided	Acrylic coated cloth	Rubber	290	180C°/30min 356°F/30min	Speciality masking	Residue free removal, high resistance to paints, solvents, abrasion
	tesa® 51608	Fleece single-sided	PET fleece	Rubber	280	105°C max 221°F max	Wire Harnessing	Noise dampening and abrasion resistant
	tesa® 50530	Single-sided filmic	Polyolefinic	EVA	79	n.a.	Temporary surface protection	Protection during outdoor storage up to 12 months



Certifications

Our company is focused on international quality, environmental, and occupational safety standards.

Please find more information regarding our certifications at:
www.tesa.com/certifications

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