Adhesive tape solutions for consumer electronics

Enabling the future of consumer electronic devices

About us

Qualified experience and individual support

As a leading adhesive manufacturer in the electronics industry, we offer a wide range of customized adhesive tapes for smartphones, tablets, and other electronic devices. We continuously develop new products to better serve you and your customers in this fast-moving and innovative industry.

You and your suppliers are our priority. Our team of experts – from sales offices, R&D centers, and manufacturing facilities – is available globally to support you locally. In particular, our Customer Solution Center with its technical experts is there to offer you the individual support you need. Our state-of-the-art facility with extensive equipment is at your disposal to find the adhesive solution for your needs.

Contents

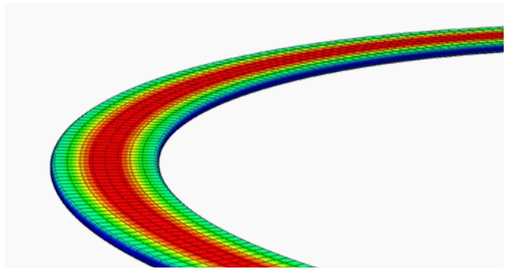
Your complete partner

Solutions that go beyond tape

Every project comes with new and individual challenges. We overcome these challenges by partnering with you to create unique and specialized products that meet and exceed your customers' expectations. Our capability goes beyond tape, as we also offer a comprehensive technical product package.

Our labs and technical experts
With our extensive experience in adhesive technology, we have developed a large portfolio of adhesive products for electronics applications.

Our technical experts will support you throughout your entire product development process and help you find the optimal solution for your requirements.

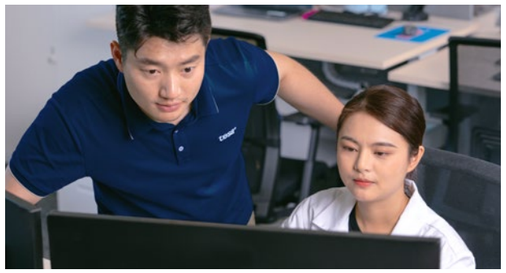


Finite Element Analysis (FEA)
FEA is a critical tool in the design and optimization of products, allowing engineers to predict the behavior of materials and components under various conditions. At tesa, we have developed significant expertise in material modeling and FEA. This enables us to offer our customers detailed virtual insights into the performance of our adhesive solutions.

Our FEA capabilities extend across a wide range of applications, where we support our customers in stress analysis, thermal simulations, and dynamic modeling. Using accurate predictions will help optimize product designs, reduce costs, and enhance reliability. We leverage state-of-the-art and advanced modeling techniques to deliver precise simulations that reflect real-world conditions.

By integrating FEA into your development process, you can ensure that our adhesive tapes meet the highest standards of performance and durability in your applications.

If you are interested in material modeling and FEA, please contact our sales representative.



On-site support
We provide individual project support backed up by application engineers and research and development resources. Our technical experts in our Customer Solution Center offer on-site support and evaluation of your individual application under laboratory conditions.

Contact us
Our local experts and engineers are just a 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.

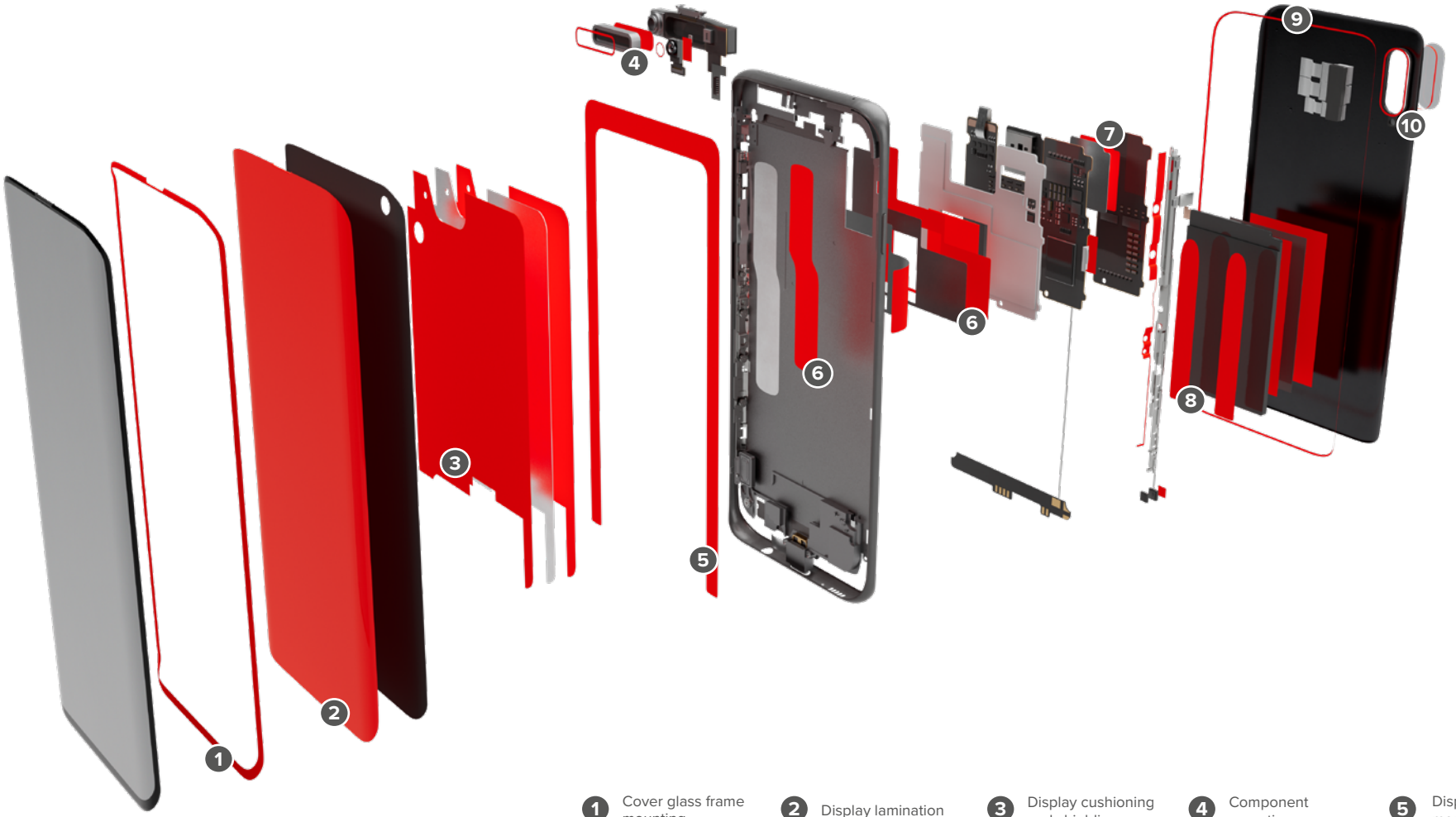
Tapes for your success

Comprehensive tape solutions for electronic devices

Our extensive expertise in tape application within the electronics sector empowers us to provide exceptional support and guidance in selecting the finest tape solutions for your needs.

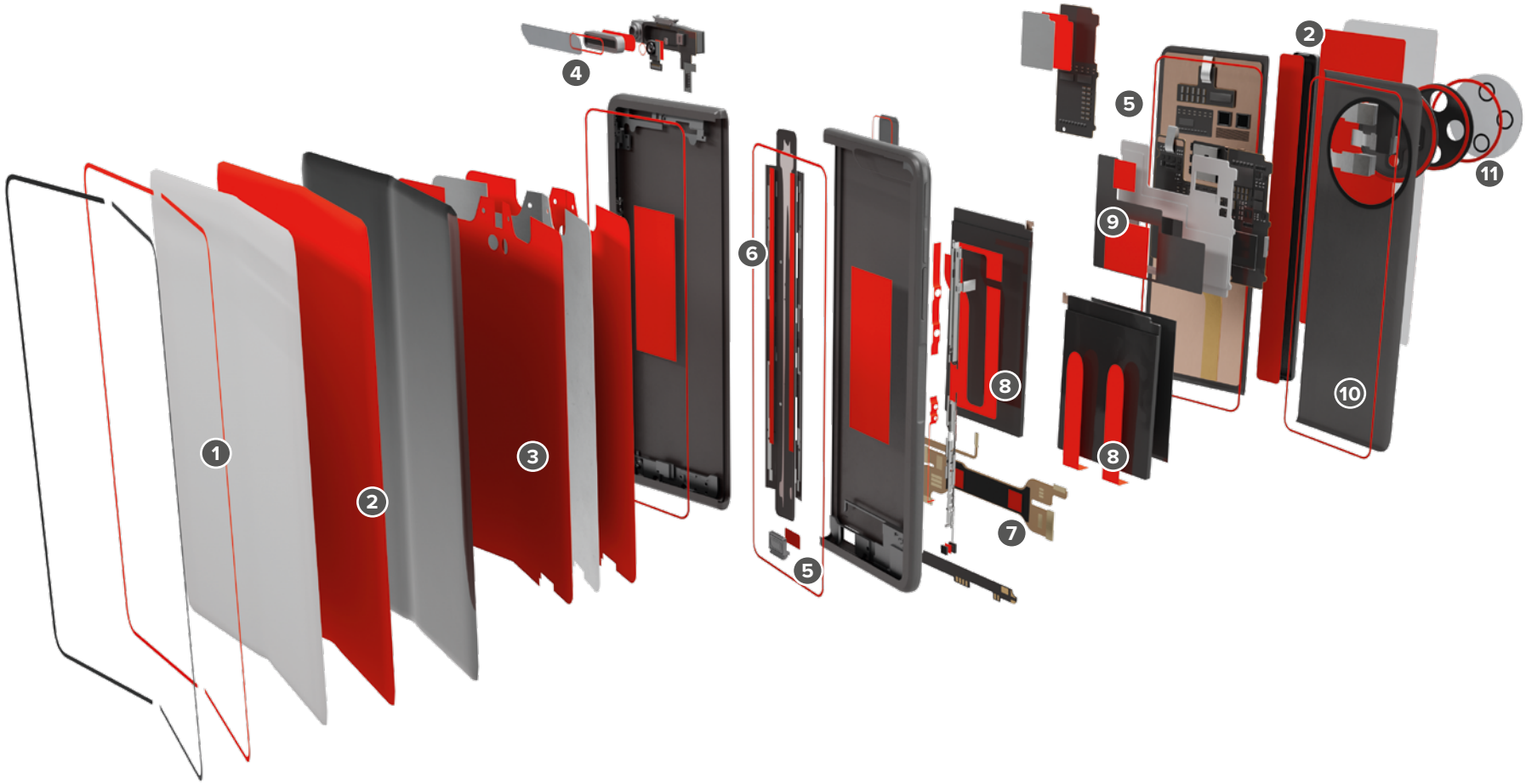
We are committed to enhancing your product development from start to finish. By prioritizing your needs and those of your suppliers, we ensure personalized and dedicated service. Our mastery in tape applications equips us to offer you the best in adhesive tape solutions, staying abreast of the latest innovations and market technologies in electronics. This enables us to supply a diverse array of specially designed adhesive tapes for smartphones, tablets, and other electronic devices.

Tapes for your success – Smartphones



1 Cover glass frame mounting
2 Display lamination
3 Display cushioning and shielding
4 Component mounting
5 Display bottom mounting
6 Thermal management
7 Grounding and shielding
8 Battery mounting
9 Back cover mounting
10 Camera lens mounting

Tapes for your success – Foldable smartphones



1 Display bezel mounting

2 Display lamination

3 Display cushioning and shielding

4 Component mounting

5 Display bottom mounting

6 Hinge mounting

7 Shielding, grounding & FPC mounting

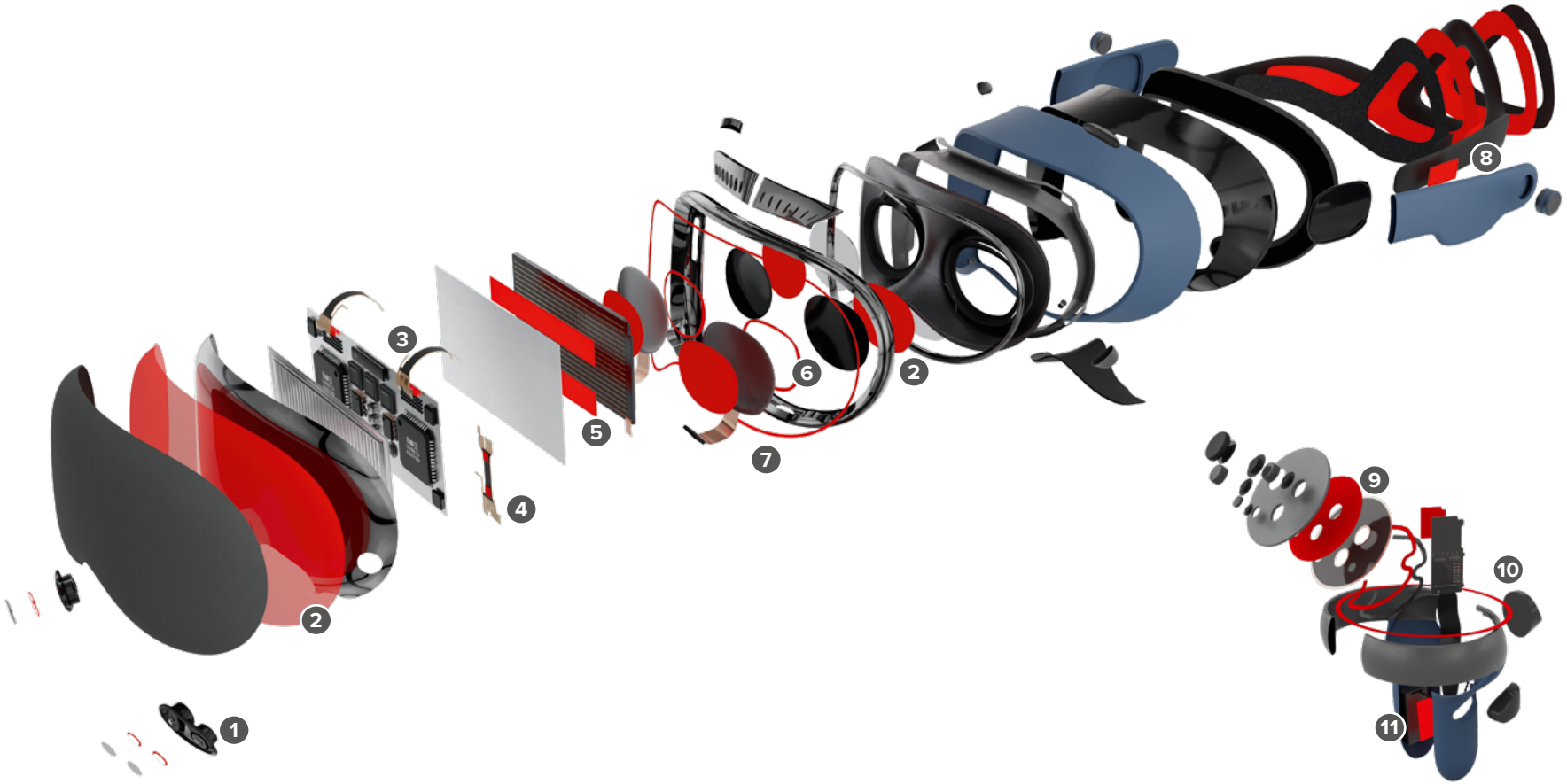
8 Battery mounting

9 Thermal management

10 Back cover mounting

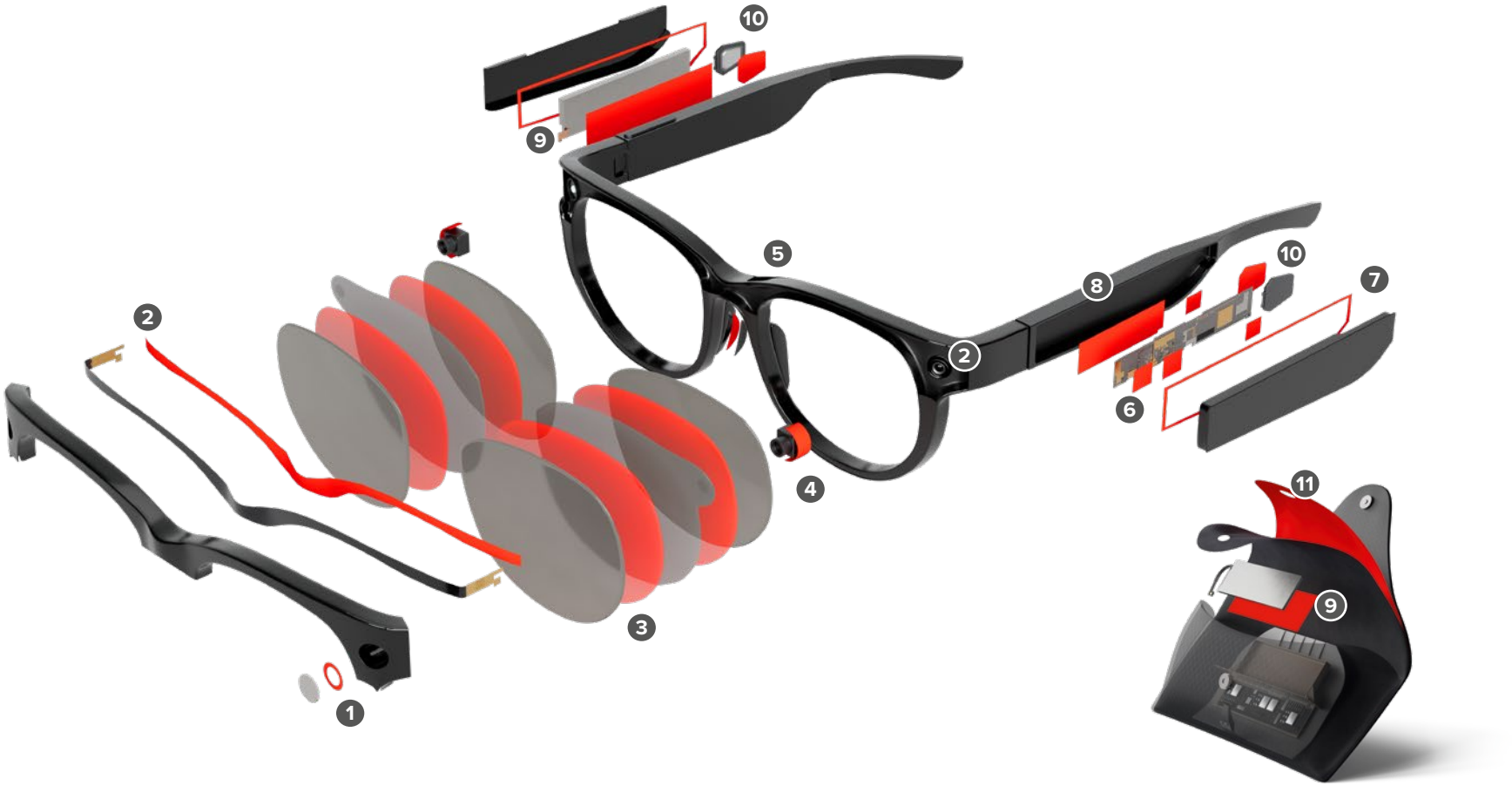
11 Camera deco/ lens mounting

Tapes for your success – AR/VR device



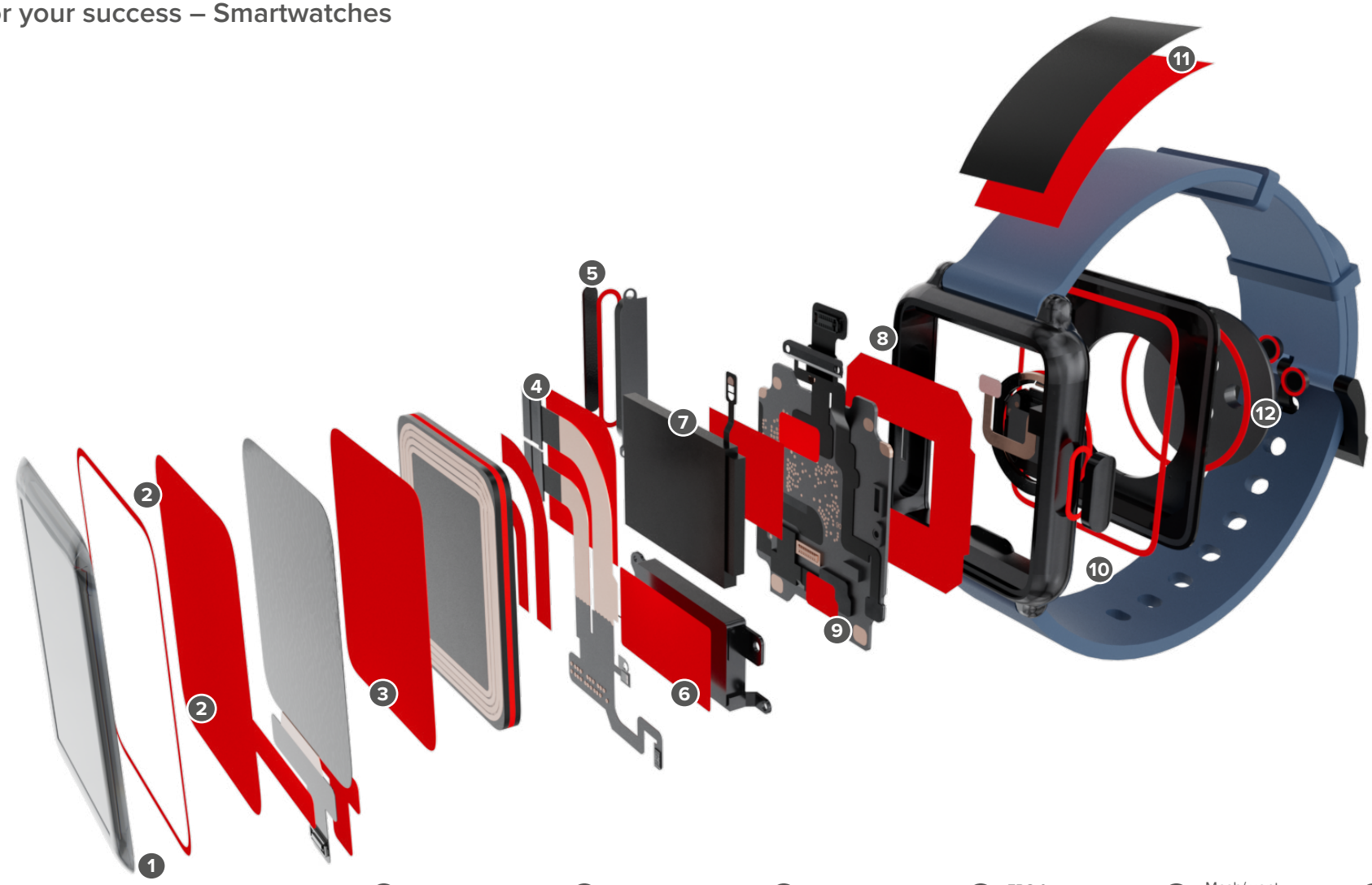
1. Camera lens mounting
2. Display lamination
3. Component mounting
4. Shielding, grounding & FPC mounting
5. Battery mounting
6. Display lens mounting
7. Display frame mounting
8. Soft goods mounting
9. Controller cover mounting
10. Controller FPC mounting
11. Controller vibrator mounting

Tapes for your success – AI / AR glasses



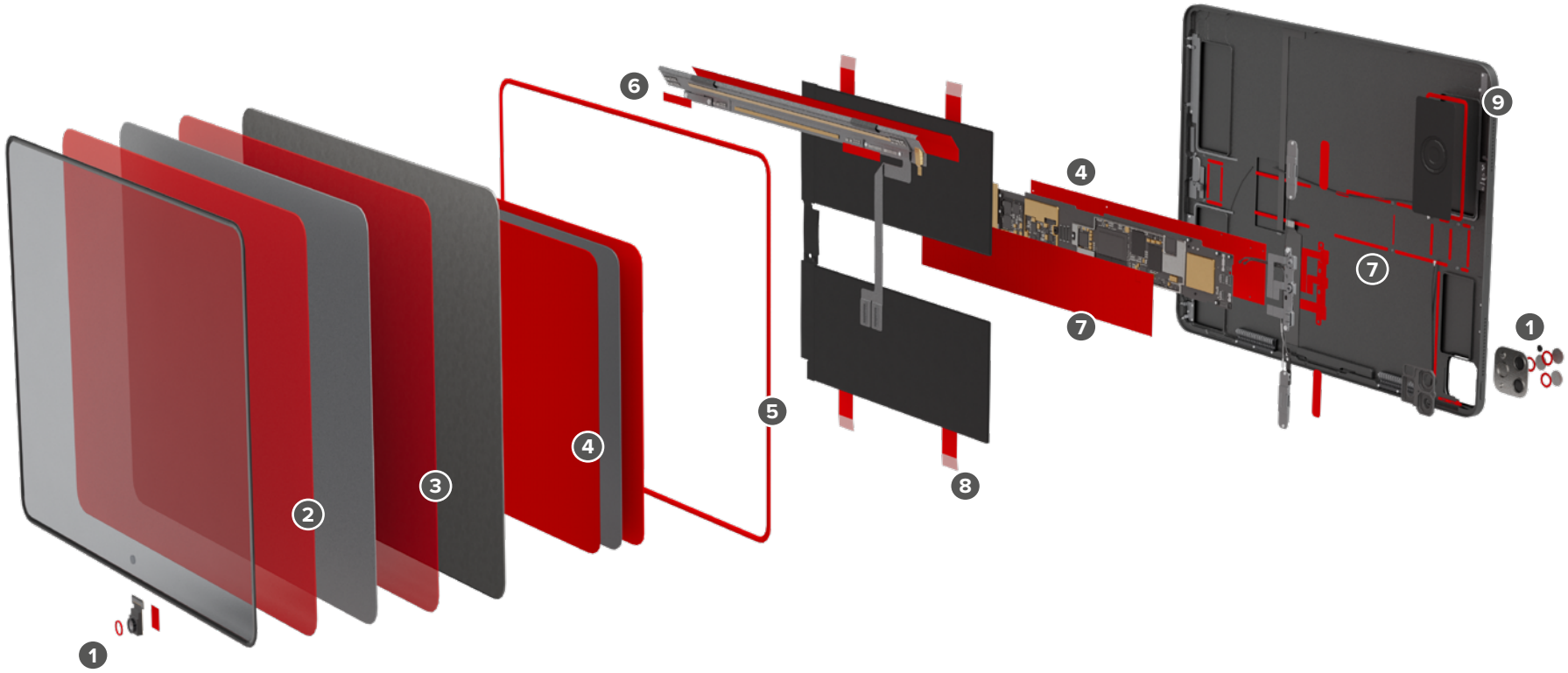
1 Camera lens mounting
2 FPC mounting
3 Optical lens lamination
4 Light blocking
5 Nose pads mounting
6 Grounding and shielding
7 Frame mounting
8 Thermal management
9 Battery mounting
10 Component mounting
11 Soft goods mounting

Tapes for your success – Smartwatches



1 Cover lens mounting
2 Display lamination
3 Display bottom lamination
4 FPC & antenna mounting
5 Mesh/ vent mounting
6 Covering and insulation
7 Battery mounting
8 Grounding and shielding
9 Thermal management
10 Side key mounting
11 Soft goods mounting
12 Back cover / sensor lens mounting

Tapes for your success – Tablets



1 Camera lens mounting

2 Display lamination

3 Display cushioning

4 Thermal management and graphite sheet lamination

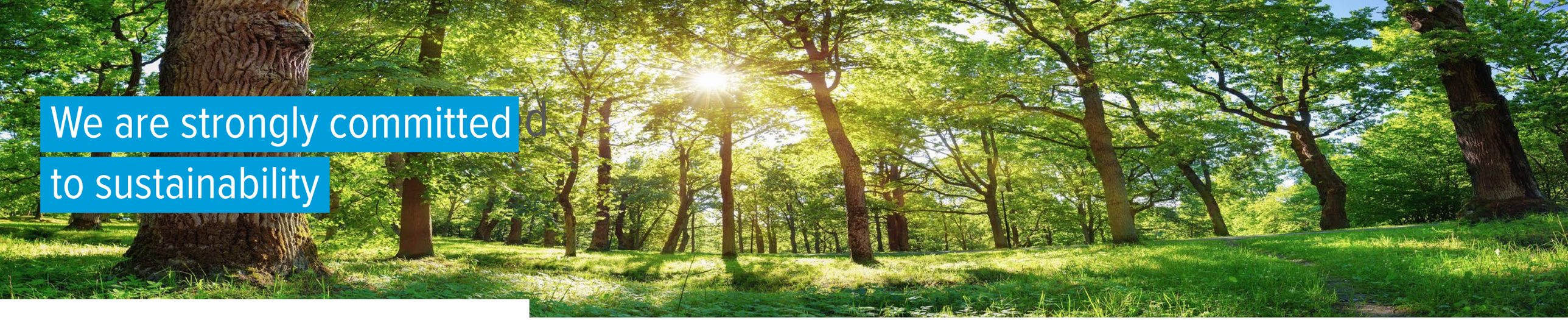
5 Cover glass frame mounting

6 FPC mounting

7 Grounding and shielding

8 Battery mounting

9 Component mounting



We are strongly committed to sustainability

Sustainability and performance go hand in hand

At tesa, we believe that quality, innovation, performance, and sustainability all go together in this journey. Therefore, our assortment does not compromise the reliability and state-of-the-art bonding capabilities our customers rely on. By aligning our products with the needs of our customers, we contribute towards helping them achieve their own sustainability goals.

More than six hundred scientists, engineers, and product developers at tesa are exploring ways to improve the sustainability of our products. We are expanding our use of recycled and bio-based materials across all our solutions, for example our assortment of foam, film and electrically conductive tapes for consumer electronic applications.

Given the strong push by the EU on repairability and waste reduction in consumer electronics, it has become increasingly important to be able to disassemble and rework devices. tesa's "Debonding on Demand" has the potential to cut waste, boost recycling, enable product repairs and promote a circular economy across industries.

Want to know more about sustainability at tesa? Click the QR code!

Reduce emissions

Tackling the global climate crisis and accelerating positive change are central elements of our commitment. Our mission to reduce global emissions includes upstream and downstream processes as well as our own production.

We record, consolidate, and analyze our energy consumption in accordance with the guidelines of the Greenhouse Gas Protocol. Green energy is a key pillar of our commitment. Since 2020, we have sourced 100 percent of our purchased electricity from renewable energy sources.

Additionally, we are progressing towards carbon neutrality in our plants by investing in measures to increase green fuel consumption. For example, tesa plant Hamburg is to be connected to the hydrogen network, which will save around 6,000 metric tons of CO_2 per year.

Source responsibly

Responsible procurement is the first step in the life cycle of a sustainable product.

We want to ensure that fair working conditions and human rights as well as environmental protection are in place in the supply chain. To do this, we strictly enforce supplier traceability and high transparency of our value chain: certifying our raw materials, evaluating suppliers and participating in associations.

More than 800 suppliers worldwide deliver raw materials, products and services to tesa. To source more responsibly, we launched our Supplier Green Energy Program in 2024 aiming to increase the share of renewable energy in the value chain and significantly reduce CO_2 emissions. Together with our suppliers, we identify challenges and implement specific solutions that support progress for decarbonization. We are in this together.

Rethink materials

tesa has set itself the goal of significantly increasing product sustainability and is working on this every day.

Over the last years, we have developed and launched a wide assortment of more sustainable products for the electronics sector, and we are working on many more. In doing so, we are focusing on the reduction of non-recycled fossil plastics and will increasingly use recycled and bio-based materials.

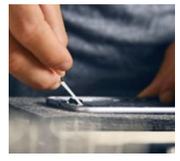
We have a comprehensive carbon footprint database, and we are continuously improving our data quality. Additionally, we conduct external life cycle assessments to ensure a science-based approach.

Push circularity

tesa will contribute to the circular economy and use resources as carefully as possible. First and foremost, this involves avoiding waste. Whenever this is not possible, we reduce it. If waste is unavoidable, we seek to reuse or recycle it by various means.

Since 2023, we have made significant progress in reducing plastic film liner usage and initiated pilot projects with customers to collect and reuse plastic end-wall covers for log rolls. Thanks to this, we are recovering approximately 165,000 end-walls from customers.

Support customers

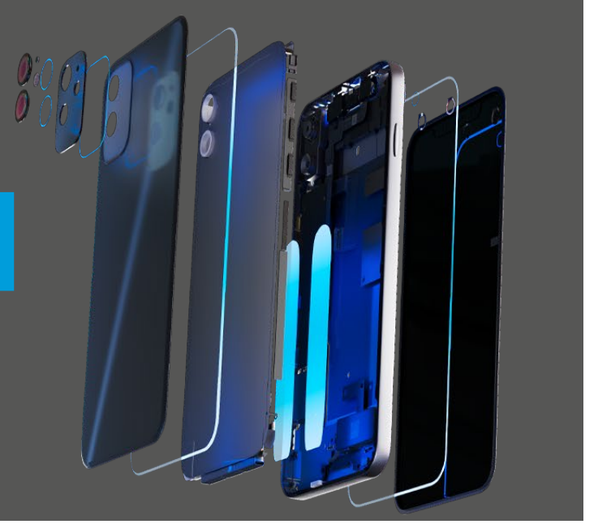


Our versatile building blocks empower customers to improve reworkability in production, enhance repairability throughout the lifespan of devices, and achieve optimal recyclability after their life cycle.

tesa is at the forefront of revolutionizing the industry with our groundbreaking **"Debonding on Demand"** adhesive tapes: tesa® Bond & Detach has set a solid foundation for more sustainable and efficient manufacturing processes.

Our intelligent and innovative tapes (such as the electrical, laser and thermal debonding tapes) deliver on the promise of permanent and secure adhesive bonds, with the added benefit of being removed without leaving any residue. This opens up a new world of possibilities for innovative and sustainable industrial design for our customers.

tesa® Debonding on Demand solutions

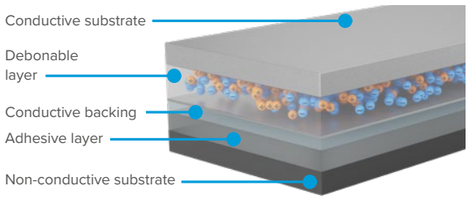


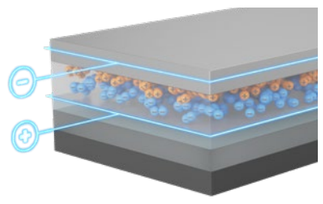
Changing consumer expectations and new legislative requirements are pushing manufacturers to build devices that are both more durable and easier to repair. Yet these goals often conflict: for example, high levels of waterproofing typically rely on strong adhesive bonding properties, which can make the replacement of components significantly harder.

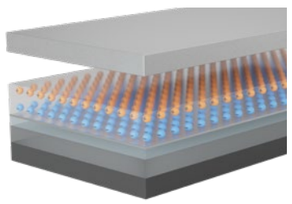
tesa® Debonding on Demand tapes overcome this challenge. Built to withstand everyday challenges - from water and dust exposure to the impact of accidental drops - they deliver the protective performance modern devices require. At the same time, their smart debonding function enables the efficient, clean separation of components whenever repair, rework, or recycling is needed.

Our tesa® Debonding on Demand tapes offer reliable bonding and easy release, providing maximum design freedom for our customers – engineered for the next generation of electronic devices.

From concept to reality: How Debonding on Demand works







Cations
Anions

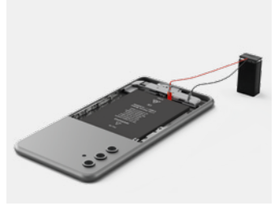
The tape consists of three layers: a debondable layer containing an ionic liquid that functions as an electrolyte and can move freely within its adhesive matrix, a conductive backing, and a conventional adhesive layer.

When a voltage is applied, the ions inside the debondable layer begin to migrate. Cations move toward the negative electrode, while anions migrate toward the positive electrode.

The resulting electrochemical reaction within the adhesive significantly reduces its adhesion to the conductive substrate. As a result, the tape can be cleanly removed without leaving any residue.

The battery is mounted to the smartphone housing with our tesa® DoDTech tape.

Delivering strong and reliable bonding and engineered to withstand impact of drops.

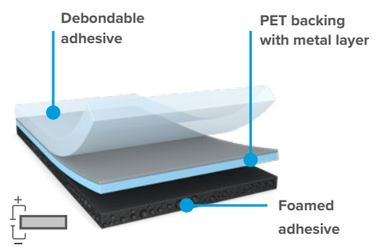
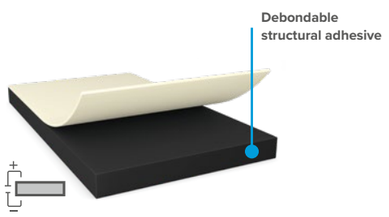


Applying a low voltage activates the debonding function.

Allowing the battery to be removed quickly and cleanly.

Assortment overview

We offer our tesa® Debonding on Demand tapes based on both pressure-sensitive adhesive (PSA) and structural bonding technologies. Each solution provides a distinct performance profile and shows its strengths depending on the application requirements. The following section illustrate product designs based on PSA and structural bonding technologies.

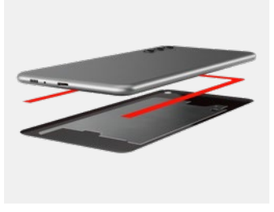
	PSA solution		Structural bonding solution
Design		**Design**	
Thickness [µm]	100 (tesa® 6160 and tesa® 87551)*	**Thickness [µm]**	150 (tesa® 58436) and 200 (tesa® 58438)*
Color	Silver / black	**Color**	Black
Peel adhesion after 7d [N/mm]	8.0 (debondable side/steel)	**Tensile strength [N/cm²]**	5.0 (steel/steel)
Peel adhesion after 90 s @ 9 V [N/mm]	< 0.1 (debondable side/steel)	**Tensile strength after 300 s @ 30 V [N/cm²]**	0.2 (steel/steel)
Product features	• High bonding performance • High shock properties • Easy and residue-free debonding after applying voltage	**Product features**	• Extremely high bonding performance, even on thin design gaps • Activated at low temperature and pressure (> 85°C) • Outstanding chemical resistance • Easy and residue-free debonding after applying voltage
Product description	tesa® 167M DoDTech is a double-sided tape composed of two products that need to be laminated together. It features an electrically debondable adhesive on one side, combined with a metallized PET backing and a black foamed adhesive on the other side.	**Product description**	tesa® 5843x is a debondable, low-temperature reactive structural bonding film. Supplied in black and without a backing, it is designed for applications with two conductive substrates.

* other thicknesses available upon request

Typical applications

Battery mounting

Back cover mounting



Display bottom mounting

Panel mounting

Structural bonding solutions

The best reliability for the toughest demands

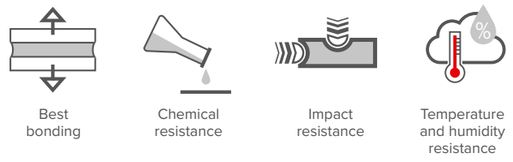
tesa® structural bonding solutions provide high bonding performance to a wide variety of substrates. They withstand the harshest conditions by combining outstanding chemical and aging resistance. The processing of these adhesive systems is simplified due to excellent die cuttability, immediate handling stability after activation, and low oozing.

Heat-activated films
tesa HAF® is a thermosetting adhesive system. An irreversible cross-linking reaction is initiated by heat and pressure starting at temperatures above 120°C, resulting in extremely strong bonds.

Low-temperature activated films
Our low-temperature reactive films tesa® LTR and tesa® LTC have been designed for activation at moderate temperatures. The cross-linking starts at a bond-line temperature above 75°C.

Light-activated tapes
tesa® UV epoxy and tesa® L-tape are our latest developments that will cure at room temperature when exposed to light. They achieve significantly higher bonding strengths compared to PSAs. They come with high initial tack and immediate holding strength after bonding.

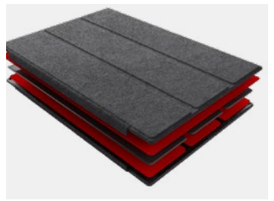
Features

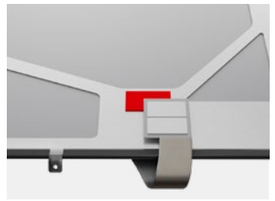


Typical applications

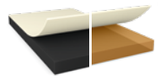
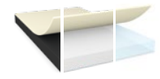
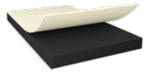
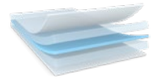
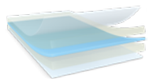

Component mounting


Cover lens mounting


Soft goods bonding


FPC mounting

Assortment overview

		Heat-activated films	Low-temperature activated films		Light-activated tapes	
		tesa® HAF®	tesa® LTR	tesa® LTC	tesa® UV epoxy NEW	tesa® L-tape NEW
	Design					
	Color	Black, amber	Black, white, translucent	Black	Transparent	Translucent
	Adhesive	Nitrile rubber/phenolic resin	Cross-linkable polyurethane	Cross-linkable polyurethane	Light activated	Light curable
	Activation temperature [°C]	>120	>75	>75	Room temperature	Room temperature
	Special features	Temperature resistance, chemical resistance	Impact resistance, wettability on fabrics	Impact resistance, chemical resistance	Activation at RT, chemical resistant	Activation at room temperature, impact resistance
Thickness	10 µm	● 58469				
	20 µm	● 58477				
	25 µm			● 58720		
	30 µm	● 58471 ● 8471	○ 8711			
	50 µm	● 58470	● 58480 ○ 8710 ○ 8722	● 58722	○ 8482***	○ 8692
	60 µm	● 8472				
	80 µm	● 58473				
	100 µm	● 58474 ● 8474	● 58484 ○ 8714	● 58724	○ 8484	○ 8694
	125 µm	● 58475 ● 8475				
	150 µm	● 58476	● 58486	● 58726		
	200 µm	● 58478 ● 8478	● 58488	● 58728	○ 8488	○ 8698
	250 µm			● 58729		
	300 µm		● 58489			
Product performance	Reference product	● 58474	● 58484	● 58724	○ 8484	○ 8694
	Reference substrate	SUS/SUS	PC/PC	Al/Al	SUS/SUS	Al/PC
	Push-out [MPa]	>9.0	>5.5	>4.0	6	>3.0
	DuPont [J; xy/z]	>0.5	>4.0	>1.0	>0.5	>1.0
	Reliability*	●●●●	●●●	●●●●	●●●●	●●●
	Chemical resistance*	●●●●	●●	●●●	●●●	●●

* Assessment is done in relation to other products in this assortment
** Deviating thickness
*** Prototype

● Amber ○ Translucent ○ White ● Black

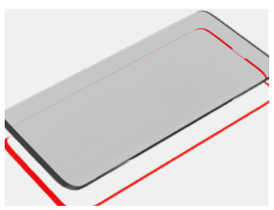
Acrylic foam tapes

For applications with extreme requirements

Our acrylic foam tape assortment is especially designed for demanding applications in the electronics industry and is distinguished by its very special bonding capabilities. The high bonding performance is possible due to the tape's viscoelasticity: elastic and viscous characteristics provide inner strength and relax mechanical stresses. The use of highly innovative technologies and special acrylic adhesive systems together with the viscoelastic nature of acrylic foams create multiple benefits like impact resistance, high bonding strength, and waterproofing for electronic devices for the entire life cycle of the product.

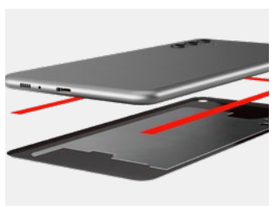
Features

Typical applications

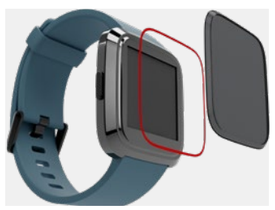


Cover glass frame mounting

Back cover mounting

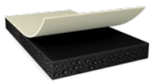
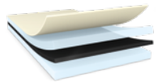
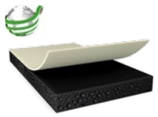
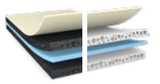


Display bottom mounting



Cover lens mounting

Assortment overview

		tesa® 751xx	tesa® 754xx/756xx	tesa® 6108x	tesa® 760xx NEW	tesa® 7588x NEW	tesa® 757xx
Design							
Color		Black	Black	Black	Black	Black	Black, white
Adhesive		Modified acrylic	Modified acrylic	Tackified acrylic	Tackified acrylic (66% bio-based carbon content)	Acrylic	Modified acrylic
Backing		-	-	AC foam	-	-	PET
Special features		Outstanding impact resistance	Outstanding bonding	Easy activation, inner force resistance	Balanced performance, high bio content	Chemical resistance	Balanced performance
Thickness	**50 µm**		● 75405			● 75881	
	100 µm	● 75110	● 75410		● 76010	● 75882	● 75710
	150 µm	● 75115	● 75415 ● 75615		● 76015	● 75883	● 75715
	200 µm	● 75120	● 75620		● 76020	● 75884	● 75720 ○ 75743
	250 µm	● 75125	● 75625				● 75725 ○ 75745
	300 µm	● 75130	● 75630	● 61086			● 75730
	350 µm		● 75635	● 61087			
	400 µm		● 75640	● 61088			
	450 µm		● 75645				
	500 µm		● 75650				
Product performance*	**Reference product**	● 75120	● 75620	● 61086	● 76020	● 75884	● 75720
	Peel adhesion [N/cm; initial/ ultimate] SUS	13.0/15.0	15.5/17.0	15.5/17.5	11.0/12.0	8.0/10.0	14.0/15.0
	Push-out [N]	300	225	215	120	185	205
	DuPont [J; xy/z]	1.4/1.2	1.3/1.0	1.6/1.3	1.0/0.8	1.4/1.2	0.9/0.8
	Remov-ability*	●●	●	●●	●●	●	●●●

* Assessment is done in relation to other products in this assortment

○ White ● Black

PE foam tapes

For challenging applications

PE foam tapes have long proven their value to the electronics industry. Certain properties such as impact resistance, bonding strength, and waterproofing are offered by all series in our PE foam range. In this section we present a selection of our PE foam solutions focusing on different series' specific performance features. If you require more information than what we have provided here, please contact your local representative.

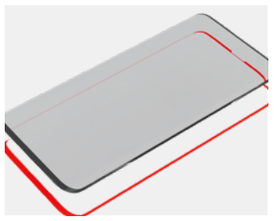
Features

High bonding

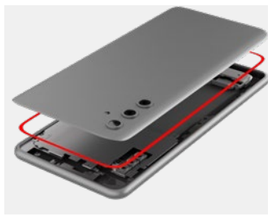
Impact resistance

Water-proofing

Typical applications

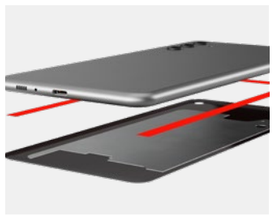


Cover glass frame mounting



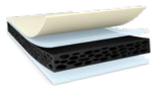
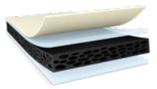
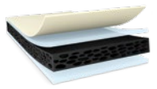
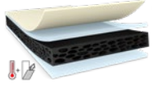
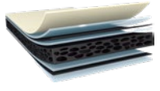
Back cover mounting

Camera lens mounting



Display bottom mounting

Assortment overview

		tesa® 6208x	tesa® 668xx	tesa® 626xx	tesa® 6218x	tesa® 66425
Design						
Color		Black	Black, white	Black	Black	Black
Adhesive		Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
Backing		PE foam	PE foam	PE foam (partly with PET reinforcement)	PE foam	PE foam (with PET reinforcement)
Special features		Gap closing, shear resistance	Anti-repulsion, impact resistance	Bonding, conformability	Heat removable	Cuttable for rework
Thickness	**150 µm**	● 62082	● 66822			
	200 µm	● 62084	● 66824	● 62624		
	250 µm	● 62085	● 66825	● 62625 ● 62645		
	280 µm					● 66425
	300 µm	● 62086	● 66826	● 62626 ● 62646	● 62186	
	350 µm	● 62087				
	400 µm	● 62088	● 66828			
Reference product		● 62086	● 66826	● 62626	● 62186	● 66425
Product performance	**Peel adhesion [N/cm; initial/ ultimate]** **SUS**	11.5/13.5	12.5/14.5	13.0/16.0	Provided per request	Provided per request
	PC	11/14.5	12.5/16.0	15.0/16.0	Provided per request	Provided per request
	Push-out [N]	220	252	180	242	210
	DuPont [J; xy/z]	0.52/0.5	0.88/0.77	0.48/0.42	0.62/0.71	0.49/0.47
	Compression force at 25% [kPa]	365	515	200	365	320
	Rework-ability*	●●●	●●●	●	●●●●	●●●●
	Anti-repulsion*	●●●●	●●●	●	●	●●

* Assessment is done in relation to other products in this assortment

● Black

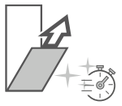
Bond & Detach®

Stretch-release tapes for residue-free removability

Our Bond & Detach® solutions have revolutionized the removability of adhesives. This tape enables the permanent mounting of components with the option of removing them without residues. Bond & Detach® uses a unique adhesive technology for demanding bonding applications, that can be removed without leaving any residue by stretching it.

The patented technology was developed by tesa and offers the possibility of simple and secure debonding during the entire product life cycle – from production to end of life. It can also be used for temporary fixation during production processes or transportation. In addition, the whole assortment provides good impact resistance and bonding strength, even on LSE substrates.

Features



Fast and residue-free removal

High bonding

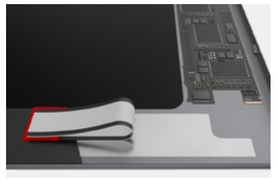
Impact resistance

LSE performance

Typical applications

Battery mounting in mobile devices

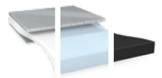
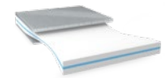
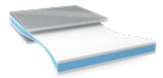
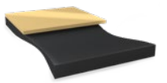
Removable mounting of devices or accessories



Temporary fixation of components

Mounting of valuable components

Assortment overview

		tesa® 704xx/ 703xx/706xx	tesa® 672xx	tesa® 770xx	tesa® 648xx	tesa® 769xx
	Design					
	Color	White, transparent, black	White	Translucent white	White	Black
	Adhesive	Specialty	Specialty	Specialty	Specialty	Specialty
	Backing	-	Stretchable PU	Stretchable specialty	Stretchable specialty	-
	Special features	Bonding strength, easy activation	High impact resistance	Impact resistance, tear resistance	Impact resistance, tear resistance	Pin tensile strength
Thickness	**80 µm**		○ 67208			
	100 µm	○ 70410 ● 70610	○ 67210	○ 77010	○ 64810**	
	150 µm	○ 70415 ● 70615	○ 67215	○ 77015	○ 64815 ○ 64816	
	175 µm			○ 77017		
	200 µm	○ 70420 ● 70620			○ 64820	
	250 µm	○ 70425 ● 70625	○ 67225		○ 64825	● 76925*
	300 µm	○ 70430 ● 70630			○ 64830	● 76930
	350 µm	● 70635				
	400 µm	○ 70440 ● 70640				
	500 µm	○ 70350 ● 70650				● 76950
	650 µm	○ 70465 ● 70665				
	800 µm	○ 70480 ● 70680				
	1,000 µm	○ 70499 ● 70699				
	1,300 µm	● 70697				
Product performance	**Reference product**	○ 70415 ● 70615	○ 67215	○ 77015	○ 64815	● 76925*
	Peel adhesion [N/cm;initial/ ultimate] SUS	13.0/13.0	9.0/9.0	10.0/10.0	11.0/11.0	13.0/13.0
	PE	7.0/7.0	6.0/6.0	7.0/8.0	8.0/8.0	10.0/10.0
	DuPont [J; xy/z]	0.7/0.3	1.0/0.7	1.0/0.7	1.1/0.8	0.8/0.4
	Tumbler [cycles]	Upon request	>500	>500	500	Upon request
	Removing force [N/cm]	4.0	5.0	4.0	4.0	5.0

* Deviating thickness

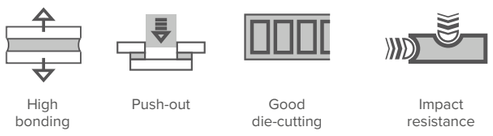
○ Transparent ○ Translucent ○ White ● Black

Double-sided film tapes

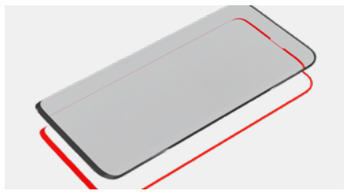
High performance profile

Our high performance profile tapes are the spearhead of our film tapes assortment. All series in this category are characterized by superior bonding performance, which is expressed in peel adhesion, push-out and shear resistance, and high impact resistance. This assortment is therefore used for demanding applications like lens and battery mounting. The PET backings used are very well suited to being die-cut.

Features

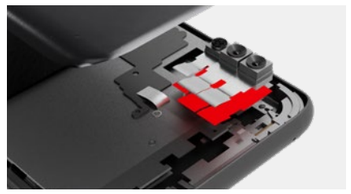


Typical applications



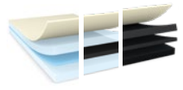
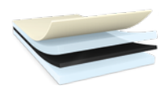
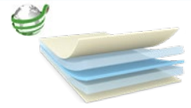
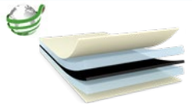
Cover glass frame mounting

Battery mounting



Component mounting

Assortment overview

		tesa® 613xx	tesa® 618xx	tesa® 6887x	tesa® 6885x	tesa® 6896x
	Design					
	Color	Transparent, black	Black	Transparent	Black	Transparent
	Adhesive	Tackified acrylic	Modified acrylic	Bio-based acrylic (75% bio-based carbon content)	Bio-based acrylic (75% bio-based carbon content)	Specialty
	Backing	PET	PET	PCR PET (100% PCR content)	PCR PET (85% PCR content)	PET
	Special features	Push-out resistance, bonding strength	Push-out resistance, impact resistance, LSE performance	Push-out resistance, bonding strength	Push-out resistance, bonding strength	Quick bonding, LSE performance
Thickness	**30 µm**			○ 68873	● 68853	○ 68960
	50 µm	○ 61305 ● 61350 ● 61358*		○ 68875	● 68855	○ 68962
	100 µm	○ 61360 ● 61361* ● 61365	● 61865	○ 68877	● 68857	○ 68964
	125 µm	○ 61370 ● 61375				
	150 µm	○ 61380 ● 61385	● 61885	○ 68878	● 68858	
	200 µm	○ 61390 ● 61395	● 61895	○ 68879		
	230 µm	● 61345				
	250 µm	● 61325	● 61825			
	300 µm	● 61315				
Product performance	**Reference product**	● 61365 ○ 61360	● 61865	○ 68877	● 68857	○ 68964
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	13.7/16.5	11.0/12.0	12.6/12.8	10.5/11.5	17.0/17.5
	Push-out [N]	230	240	317	291	255
	DuPont [J; xy/z]	0.5/0.2	0.7/0.3	Upon request	Upon request	0.7/0.6

* Black color tackified acrylic adhesive for improved light blocking performance.

○ Transparent ● Black

Double-sided film tapes

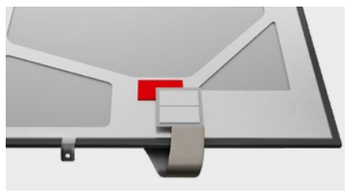
Specialized performance profile

With this assortment, we created double-sided mounting tapes with unique adhesives focusing on the special requirements of certain applications in the electronics industry. Each series within this assortment focuses on a specific property needed in the market. In this section, you will find a selection of specialized film tapes. Our capabilities go beyond what is available here. Please contact our local representatives to discuss this further.

This assortment features

Anti-repulsion | Si/Ac differential | LSE performance | Chemical resistance | Impact resistance | Temperature resistance

Typical applications



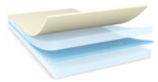
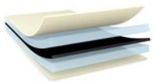
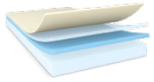
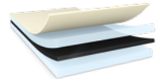
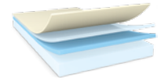
FPC mounting

Rubber-foot mounting

Sensor mounting

Our specialized film tape solutions are suitable for applications with a high demand for a certain property like anti-repulsion, differential bonding performance, chemical resistance, reworkability, or light blocking. These tapes are suitable for a wide range of applications, from mounting (e.g. FPC, antenna, keypad, sensor) to processing and packaging applications.

Assortment overview

		tesa® 6693x	tesa® 612xx	tesa® 615xx	tesa® 6881x	tesa® 885x	tesa® 4720/5720
Design							
Color		Transparent	Black	Transparent	Black	Translucent	Transparent
Adhesive		Tackified acrylic	Specialty	Silicone/acrylic	Tackified acrylic	Tackified acrylic	Acrylic / tackified acrylic
Backing		PET	PET	PET	PET	Non-woven	PET
Special features		Anti-repulsion, easy activation	Chemical resistance	Si/Ac differential, LSE	LSE, high tack, impact resistance	Temperature resistance	Covered side is removable/reworkable
Thickness	**30 µm**	○ 66930				○ 8851	
	50 µm	○ 66932	● 61250	○ 61532	● 68812	○ 8853 ○ 8857	
	60 µm				● 68811		
	80 µm				● 68813		
	100 µm	○ 66934	● 61210	○ 61528	● 68814	○ 8854	○ 4720
	140 µm			○ 61529			
	150 µm		● 61215				
	200 µm			○ 61520	● 68817		○ 5720
Product performance	**Reference product**	○ 66934	● 61210	○ 61528	● 68814	○ 8854	○ 4720
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	10.7/11.6	12.4/13.2	Si: 4.0/4.4 Ac: 11.3/12.6	13.5/14.0	8.3/9.5	Covered side: 4.0/5.7 Open side: 8.5/12.9
	Push-out [N]	143	260	Upon request	130	Upon request	Upon request
	DuPont [J; xy/z]	0.7/0.2	1.1/0.7	Upon request	0.9/0.5	Upon request	Upon request

○ Transparent ● Black ○ Translucent

Double-sided film tapes

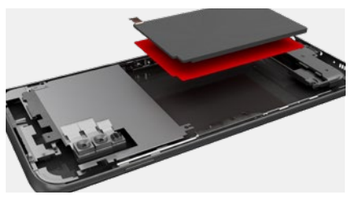
Balanced performance profile

tesa® balanced-performance film tapes are a proven solution for mounting and lamination applications in the electronics industry. The balanced adhesive provides very good tack and bonding performance for many general applications. The PET backing enables easy handling of the tape during converting and manufacturing processes. With thicknesses from 5 µm to 250 µm, this assortment offers you a broad range and excellent flexibility.

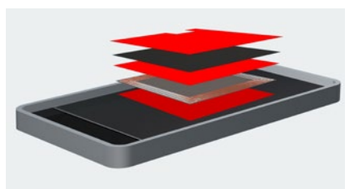
Features

- Balanced properties
- Easy die-cutting

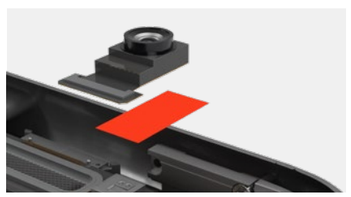
Typical applications



Battery mounting



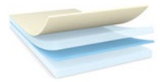
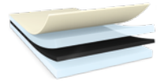
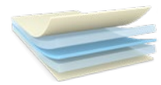
Graphite sheet lamination



Component mounting

This assortment is widely used in the electronics industry for versatile mounting and lamination applications as well as for cushioning and gasket material bonding.

Assortment overview

		tesa® 49xx	tesa® 519xx	tesa® 6854x
	Design			
	Color	Transparent	Black	Transparent
	Adhesive	Tackified acrylic	Tackified acrylic	Tackified acrylic
	Backing	PET	PET	PET
Thickness	**5 µm**			○ 68546
	10 µm			○ 68548
	20 µm			○ 68549
	30 µm	○ 4983	● 51983	
	50 µm	○ 4972	● 51972	
	80 µm	○ 4980	● 51980	
	100 µm	○ 4982	● 51982	
	125 µm	○ 4928	● 51928	
	160 µm	○ 4967	● 51967	
	200 µm	○ 4965	● 51965	
	250 µm	○ 4926	● 51926	
Product performance	**Reference product**	○ 4982	● 51982	-
	Peel adhesion [N/cm; SUS initial/ ultimate]	11.0/11.7	11.0/11.7	-
	Push-out [N]	230	230	-
	DuPont [J; xy/z]	0.5/0.2	0.5/0.2	-

○ Transparent ● Black

Covering tapes

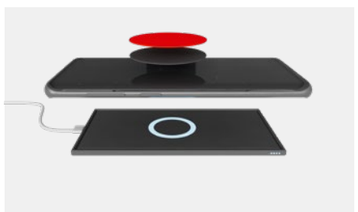
More functionality for electronic devices

Electronic components are evolving one generation after the other, just like our solutions for covering tape. Our portfolio consists of polyester and polyimide tapes.

Features

Typical applications

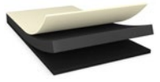
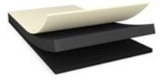
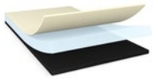
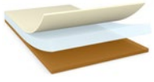
Light blocking in LCD backlight unit



Covering

Insulation on PCB and FPC

Assortment overview

		tesa® 79xx	tesa® 71xx	tesa® 673xx	tesa® 663xx
	Design				
	Color	Matte black	Black	Matte black	Amber
	Adhesive	Black tackified acrylic	Black tackified acrylic	Tackified acrylic	Tackified acrylic
	Backing	Polyester	Polyester	PI	PI
	Special features	Modern design, anti-repulsion	Bonding strength, dielectric insulation	Heat resistance, dielectric insulation	Heat resistance, dielectric insulation
Thickness	**5 µm**	● 7905			
	10 µm	● 7910		● 67310	
	20 µm	● 7920		● 67320	● 66320
	30 µm	● 7930		● 67330	● 66330
	50 µm	● 7950	● 7250	● 67350	
	60 µm		● 7160		
	80 µm		● 7180		
	100 µm		● 7100		
	Reference product	● 7950	● 7250	● 67350	● 66330
Product performance	**Peel adhesion [N/cm; SUS initial ultimate]**	4.0	4.2	3.5	3.0
	Light blocking [optical density]	5.7	>6	2.6	n.a.
	Insulation [kV, dielectric breakdown voltage]	5.5	5.0	3.6	3.6
	Anti-repulsion*	●●●●	Upon request	●●●●	●●●●

* Assessment is done in relation to other products in this assortment

● Amber ● Matte / Natural black

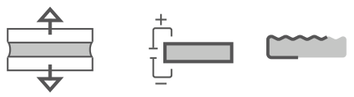
Double-sided electrically conductive tapes

For applications requiring grounding

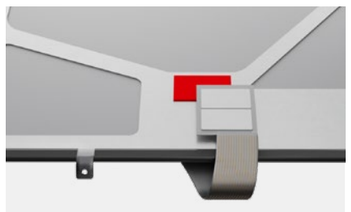
By offering a broad assortment of filled acrylic adhesive systems, with a balance between electrical conductivity and adhesive properties, we are able to provide the best solution for your requirements. Simply decide what is the most important for your application: bonding performance, conductivity, or a balance of both.

Our double-sided tapes are available with two different backings. The woven backing offers a higher tear resistance, very good dimensional stability, and better reworkability, while the nonwoven backing provides faster wetting, excellent conformability, and very good die cuttability.

Features



Typical applications

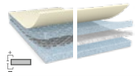
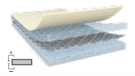
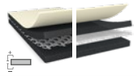
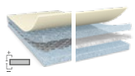
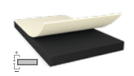
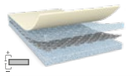


FPC grounding

Component grounding

Component grounding

Assortment overview

		tesa® 6025x/6026x	tesa® 6036x	tesa® 6037x	tesa® 6038x	tesa® EC HAF 5845x	tesa® 60250
Design							
Color		Gray	Gray	Black	Gray	Black	Gray
Adhesive		Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive structural adhesive	Conductive acrylic
Backing		Woven, non-woven	Woven	Woven, non-woven	Woven, non-woven	-	Woven
Special features		Balanced properties	High bonding strength, high conductivity	Outstanding conductivity	Outstanding bonding, repulsion resistance	Heat-activated structural bonding film, temperature and humidity resistance	High appearance quality
Thickness	**17 µm**	◍ 60267					
	25 µm	◍ 60261					
	30 µm			● 60371	◍ 60380	● 58451	◍ 60250
	35 µm	◍ 60260					
	50 µm	◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60386	● 58452	
	55 µm	◍ 60252					
	70 µm	◍ 60253					
	100 µm	◍ 60254	◍ 60364	● 60374	◍ 60384 ◍ 60388		
	150 µm	◍ 60255					
	200 µm	◍ 60256		×			
	250 µm	◍ 60257					
Product performance	**Reference product**	◍ 60252 ◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60386	● 58452	◍ 60250
	Peel adhesion [N/cm; SUS initial/ ultimate]	5.5/8.5	7.0/8.0	4.3/5.6	8.0/10.0	n.a.	>5
	Dynamic shear [Mpa]	n.a.	n.a.	n.a.	n.a.	>7	n.a.
	Contact resistance [Ω/inch²]	0.05	0.01	0.01	0.06	0.05	0.05
	Surface resistance [Ω/sq]	0.2	0.1	0.1	0.3	0.5	0.2
	Shielding effectiveness [-dB]	>50	>50	>50	>50	~40	>40

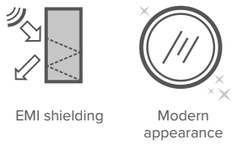
● Black ◍ Gray

Single-sided electrically conductive tapes

For shielding and covering applications

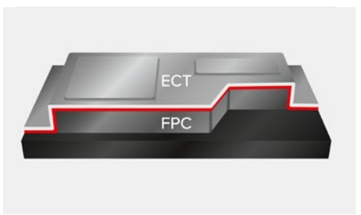
Covering and shielding applications are broad and have different requirements for conductivity, adhesion, and design. Our single-sided ECT assortment meets the latest requirements for shielding and appearance.

Features

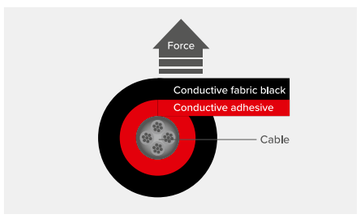


Typical applications

MLB covering

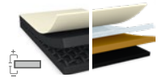
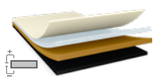
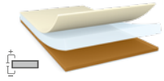
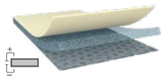


Component shielding



Wire wrapping

Assortment overview

		tesa® 6023x	tesa® 6033x	tesa® 6053x	tesa® 6034x
	Design				
	Color	Matte black	Matte black	Orange	Gray
	Adhesive	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic
	Backing	Fabric, copper	Copper	Copper	Fabric
	Special features	Modern, matte black design	Modern, matte black design with high shielding	Excellent bonding	Low-pressure activation, high conductivity
Thickness	20 µm		● 60332		
	25 µm	● 60231			
	30 µm		● 60333	● 60537	● 60347
	35 µm	● 60232			
	40 µm		● 60334		
	45 µm	● 60238			
	50 µm			● 60538	● 60348
	55 µm	● 60234			
Product performance	Reference product	● 60232	● 60333	● 60537	● 60347
	Peel adhesion [N/cm; SUS initial/ ultimate]	3.5/4.5	4.0	6.3/7.5	3.5/4.8
	Contact resistance [Ω/inch²]	0.05	0.05	0.05	0.05
	Surface resistance [Ω/sq]	0.2	0.1	0.2	0.2
	Shielding effective-ness [-dB]	>50	>60	>70	>50

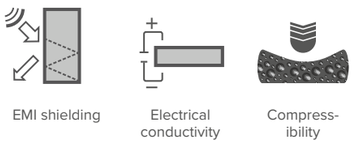
● Matte black ● Gray ● Orange

Single-sided electrically conductive foam tapes

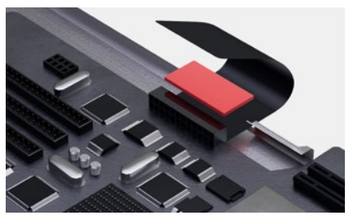
For conductive gap filling

Our single-sided electrically conductive foam tapes can be used for shielding, grounding, and filling gaps. They will provide either outstanding conformability and recovery properties or very high abrasion resistance, depending on the foam material chosen. All series in this assortment have very good shock-absorbing and cushioning properties.

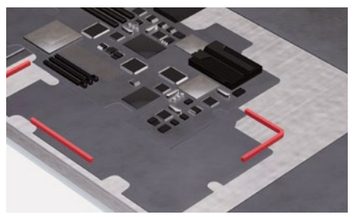
Features



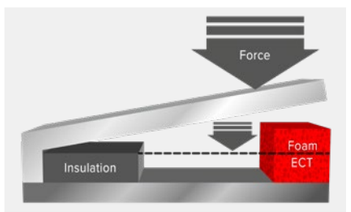
Typical applications



FPC grounding

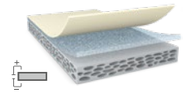


FPC Shielding



Component gap filling and grounding

Assortment overview

		tesa® 6021x
	Design	
	Color	Gray
	Adhesive	Conductive acrylic
	Backing	Soft foam
	Special features	Excellent electrical conductivity
Thickness	200 µm	● 60213
	300 µm	● 60214
	500 µm	● 60215
	700 µm	● 60210
	1,000 µm	● 60216
	1,500 µm	● 60217
	2,000 µm	● 60218
Product performance	Reference product	● 60215
	Peel adhesion [N/cm; SUS initial/ ultimate]	4.8/8.3
	Contact resistance [Ω/inch²]	0.03
	Surface resistance [Ω/sq]	0.2
	Shielding effective-ness [-dB]	>70
	Recovery rate after 24h [%]	90

● Gray

Thermal management tapes

Keeping electronic devices cool

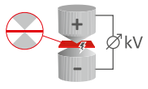
tesa® Thermal Management Tapes provides superior thermal transfer performance with excellent bonding properties. It delivers very good surface wet-out on substrates due to the transfer tape design which helps to maximize the thermal transfer efficiency in electronic devices. The available thickness range, which starts from ultrathin 10 µm and ends at 100 µm, offers more flexibility in the device design.

Features

Excellent thermal conductivity

Strong bonding strength

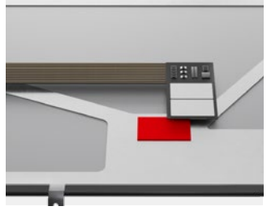
Excellent surface wet-out



High breakdown voltage

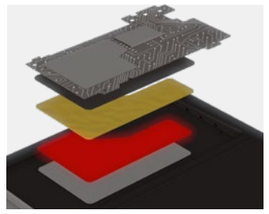
Ultrathin design

Typical applications

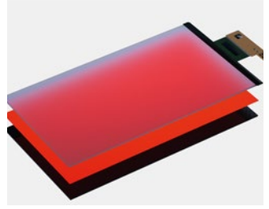


Thermal management

Antenna mounting



Vapor Chamber mounting



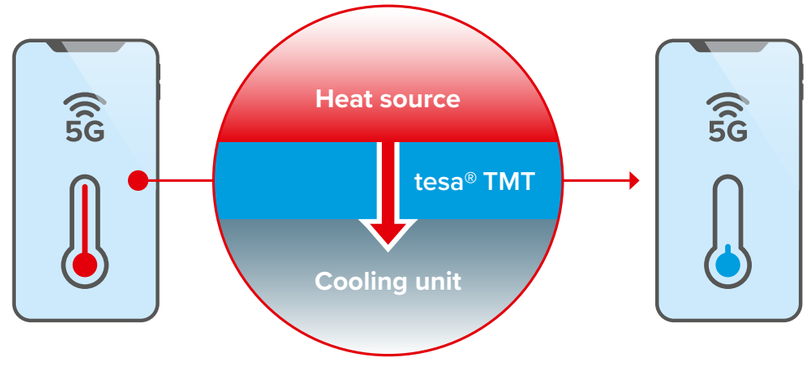
Thermal management for display

Assortment overview

		tesa® 6074x	tesa® 60735
Design			
Color		White	Black
Adhesive		Thermally conductive acrylic	Thermally conductive acrylic
Special features		Excellent thermal transfer efficiency	Excellent appearance quality for display application
Thickness	**10 µm**	○ 60742	
	30 µm	○ 60743	
	50 µm	○ 60744	● 60735
	100 µm	○ 60745	
Product performance	**Reference product**	○ 60744	● 60735
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	5.0	4.0
	Thermal conductivity [W/m x K]	1.0	0.4
	Wetting [%]	84	82
	Break-down voltage [kV]	2.9	1.4

● Black ○ White

Cooling scenario



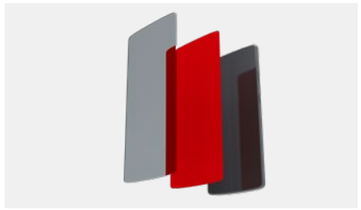
Display tapes

Optically clear adhesives with special features

Our OCA portfolio delivers high-performance solutions for advanced display applications, including AR/VR and foldable devices. All the materials are produced in cleanroom environments to meet optical clarity requirements, offering excellent environmental stability and reliable compatibility with complex display stacks.

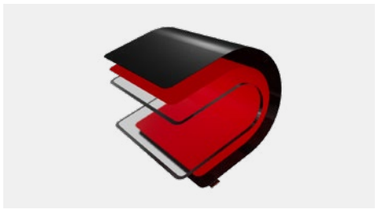
New OCA solutions
tesa® OCA 6975x, our latest solution for foldable displays, offering excellent bending performance to minimize crease visibility and enable greater design freedom for thinner, more flexible devices.

Typical applications



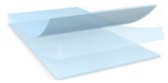
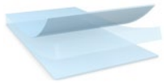
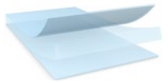
Cover lens lamination

Lamination in VR/AR devices



Foldable devices

Assortment overview

		tesa® 699xx	tesa® 6975x	tesa® 6156x
Design				
Color		Transparent	Transparent	Transparent
Type		UV-curable	PSA	PSA
UV-curing dosage [mj/cm²]		1,000	-	-
Special features		Curved design lamination	Foldable lamination	Low dK, low WVTR
Thickness*	**10 µm**	○ 69900		
	25 µm	○ 69901	○ 69751	○ 61562
	35 µm		○ 69750	
	50 µm	○ 69902	○ 69752	○ 61563
	75 µm			
	100 µm	○ 69904		
	125 µm			
	150 µm	○ 69906		
	200 µm	○ 69908		
	Reference product	○ 69904	○ 69752	○ 61563**
Product performance	**Glass**	12	n.a.	5.0
	Peel adhesion [N/cm; ultimate] **PET**	10.6	5.6	3.3
	PC	12.6	n.a.	4.7
	Transmission [%]	>99	>99	>99
	Haze [%]	<0.5	<0.5	<0.5
	Refractive index	1.48	1.48	1.52
	Gap filling [%]	15	n.a.	<10
	Dielectric constant[1]	4.58	n.a.	2.56
	G' [kPa][2]	1,620	28	550
	WVTR[3] **[g/m²*day]**	n.a.	n.a.	0.9
	Lag time[4] **[h]**	n.a.	n.a.	25

* Further thicknesses might be available upon request.
** Deviating thickness.

○ Transparent

[1] 100 kHz
[2] 25°C, 1 Hz
[3] 38°C, 90% rel. humidity, 1 mm
[4] 60°C, 90% rel. humidity, 6.5 mm gap
[5] WVTR after all getter is used up

Global presence

- 1 Company headquarter
- 5 regional headquarters
- 5 production centers
- 6 plants
- 11 Customer Solution Centers
- 59 offices

Your local contacts

Germany
Hugo-Kirchberg-Strasse 1
22848 Norderstedt | Germany
+49-40-888-990

USA
111 W Evelyn Ave Suite 308
Sunnyvale, CA 94086 | USA
+1-669-732-9809

China
No. 1, 2500 Lane Xiu Pu Road
201315 Pudong | Shanghai, China
+86-21-6818-3110

Korea
City Air Tower, Office 1805
36 Teheran-ro 87-gil, Gangnam-gu
Seoul 06164 | Korea
+82-2-34300-100

Japan
1-27-6 Shirokane, Shirokane Takanawa
Station Bldg 8F Minato-ku
108-0072 | Tokyo, Japan
+81-3-6833-2300

Southeast Asia
9 North Buona Vista Drive
04-01 The Metropolis Tower 1
138588 | Singapore
+65-6697-9888

India
Kesar solitaire, 21F, Palm beach Rd.,
Sector no.19, Sanpada,Navi Mumbai,
400705 | Maharashtra, India
+91-22-4741-9200

Vietnam
Unit 01, 16th Floor, Lancaster Luminaire
Building, 1152-1154 Lang Street, Lang
Ward, Hanoi
+84 243 766 7800

04/2026

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

tesa SE
Phone: +49-40-888-990
tesa.com/company/locations

tesa.com