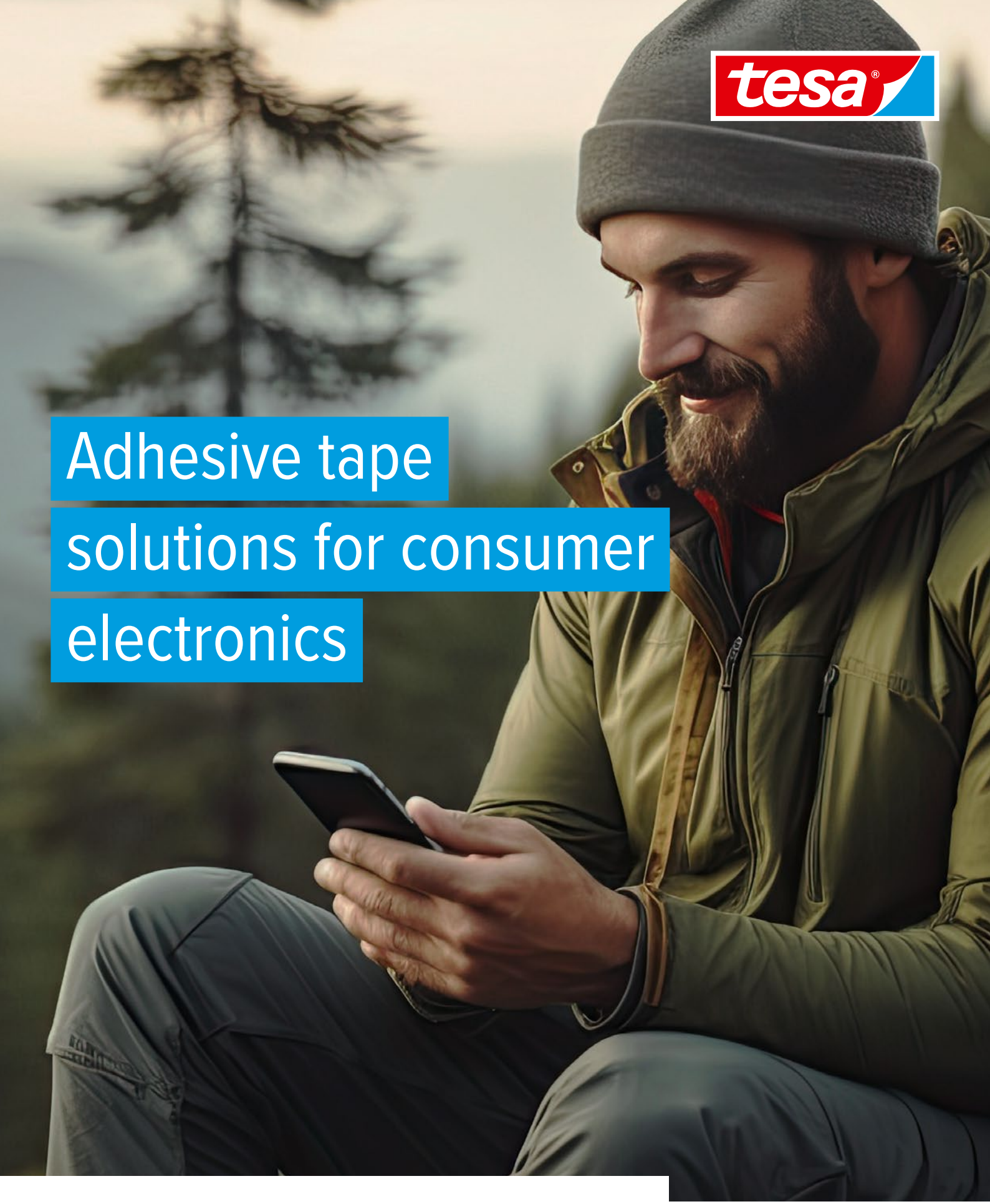


Adhesive tape solutions for consumer electronics

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 work continuously to 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 particularly, 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.

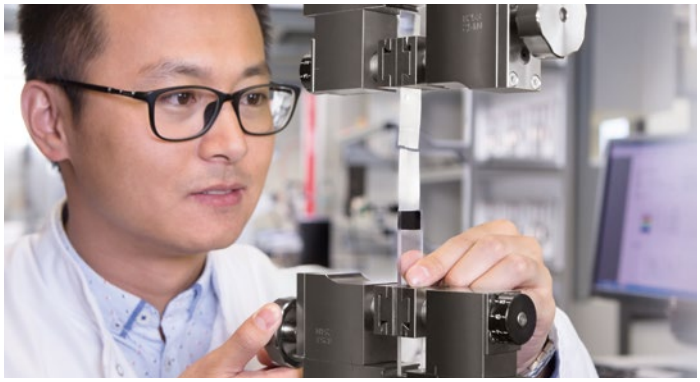
Contents

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.



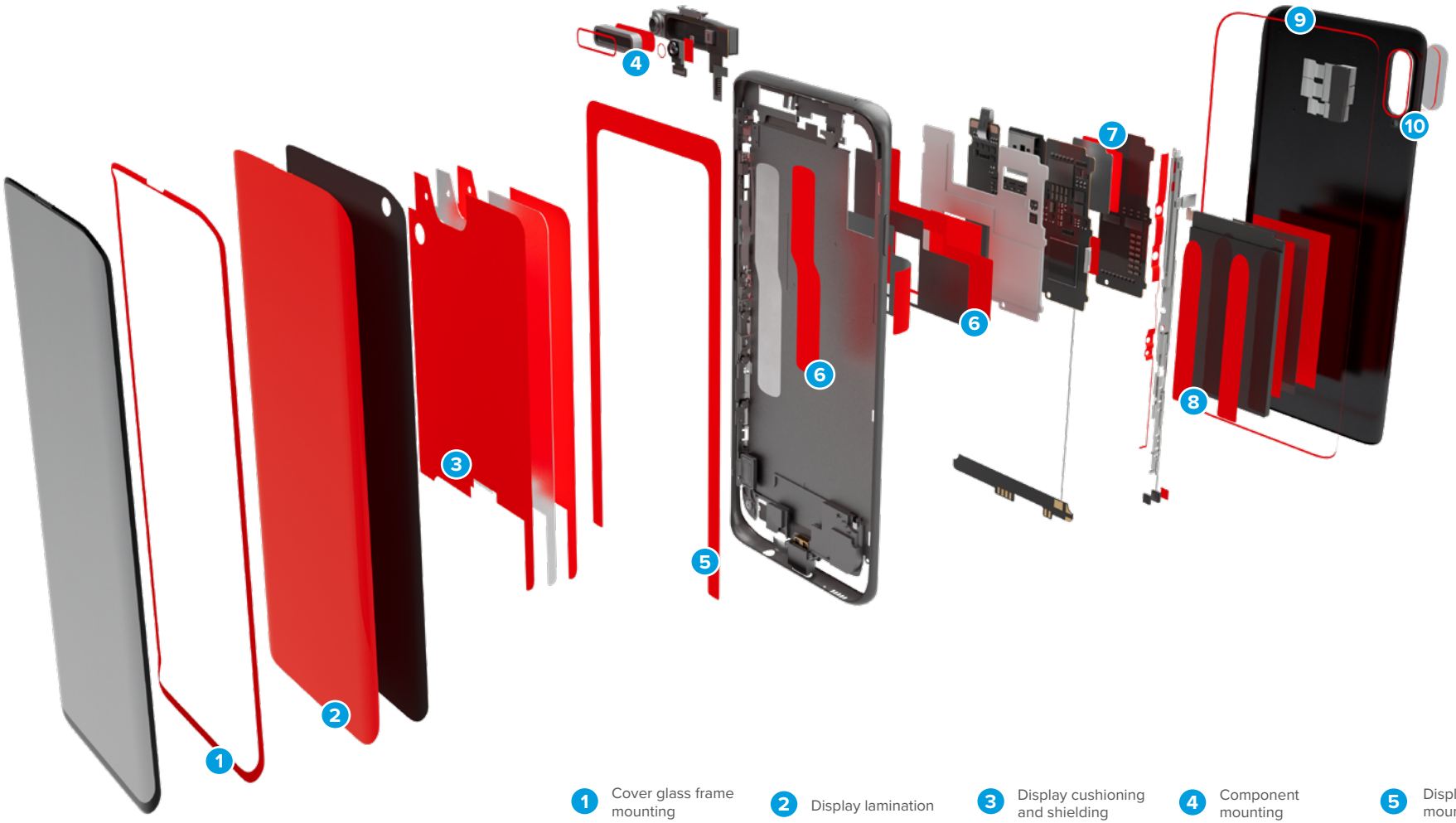
On-site support
We provide individual project support backed up by application engineers and research and development resources. Our technical experts in our Customer Solution Center offer on-site support and evaluation of your individual application under laboratory conditions.

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

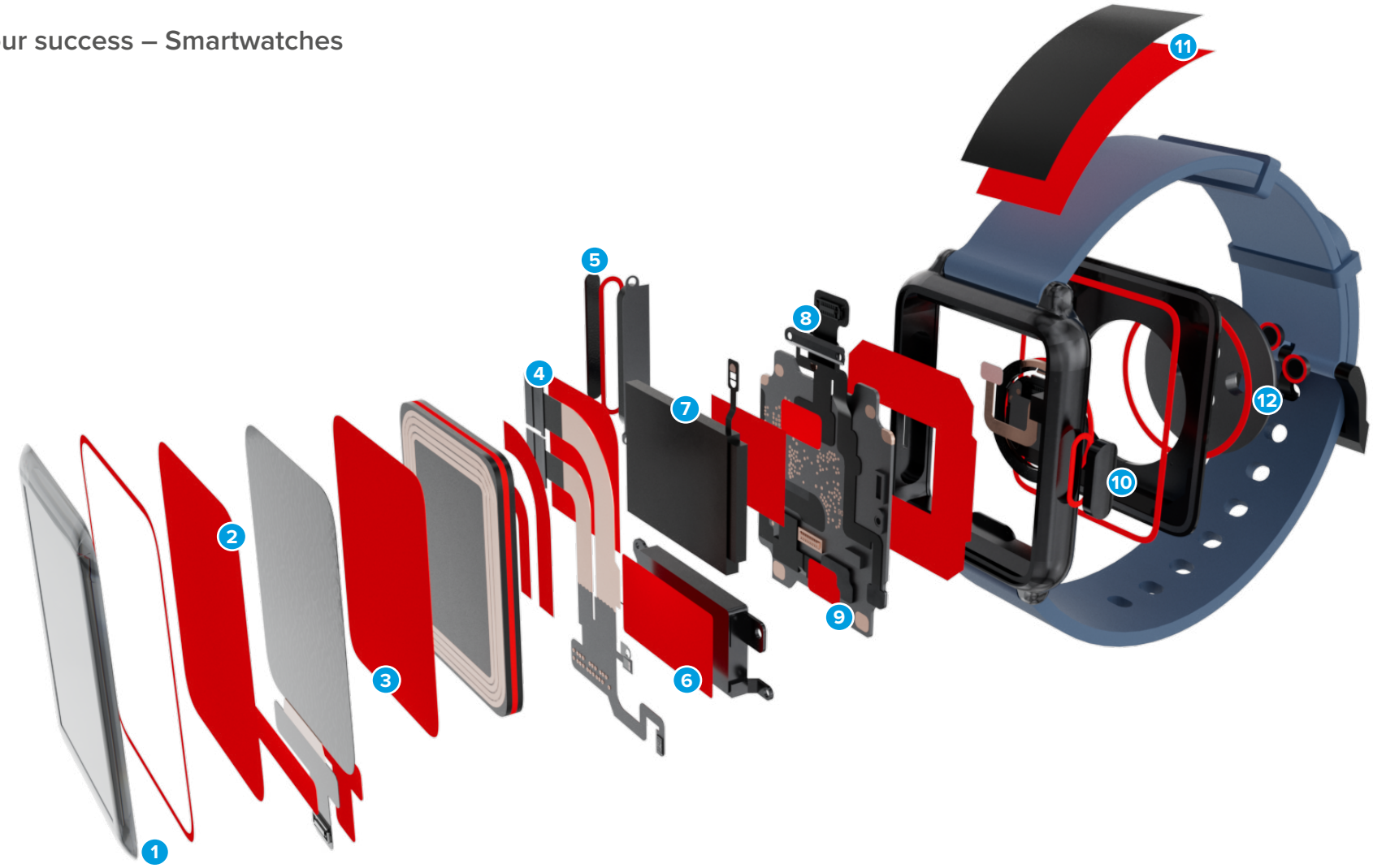
Contact us and benefit from a strong partnership.

Tapes for your success – Smartphones



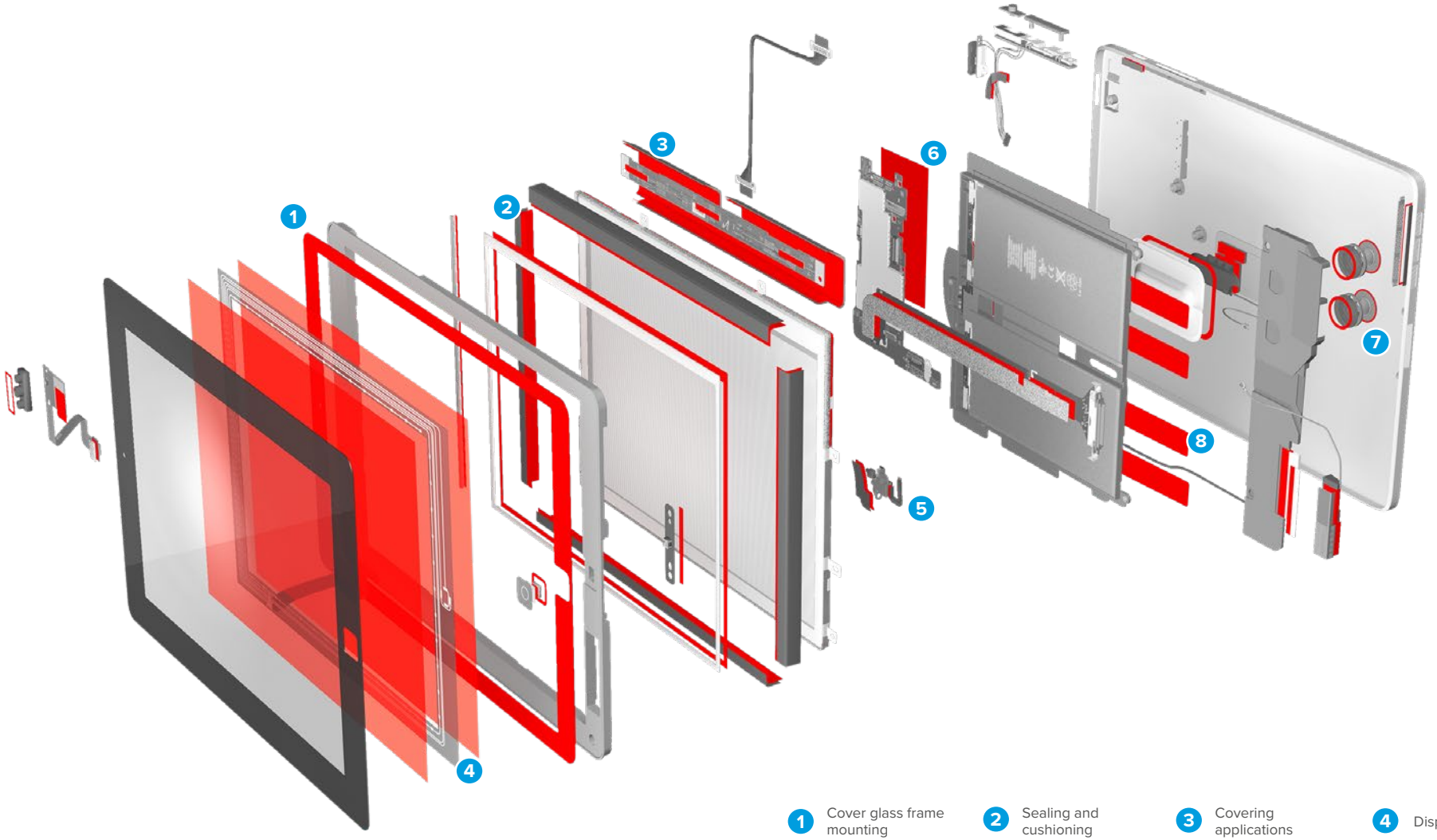
1 Cover glass frame mounting
2 Display lamination
3 Display cushioning and shielding
4 Component mounting
5 Display bottom mounting
6 Thermal management
7 Grounding and shielding
8 Battery mounting
9 Back cover mounting
10 Camera lens mounting

Tapes for your success – Smartwatches



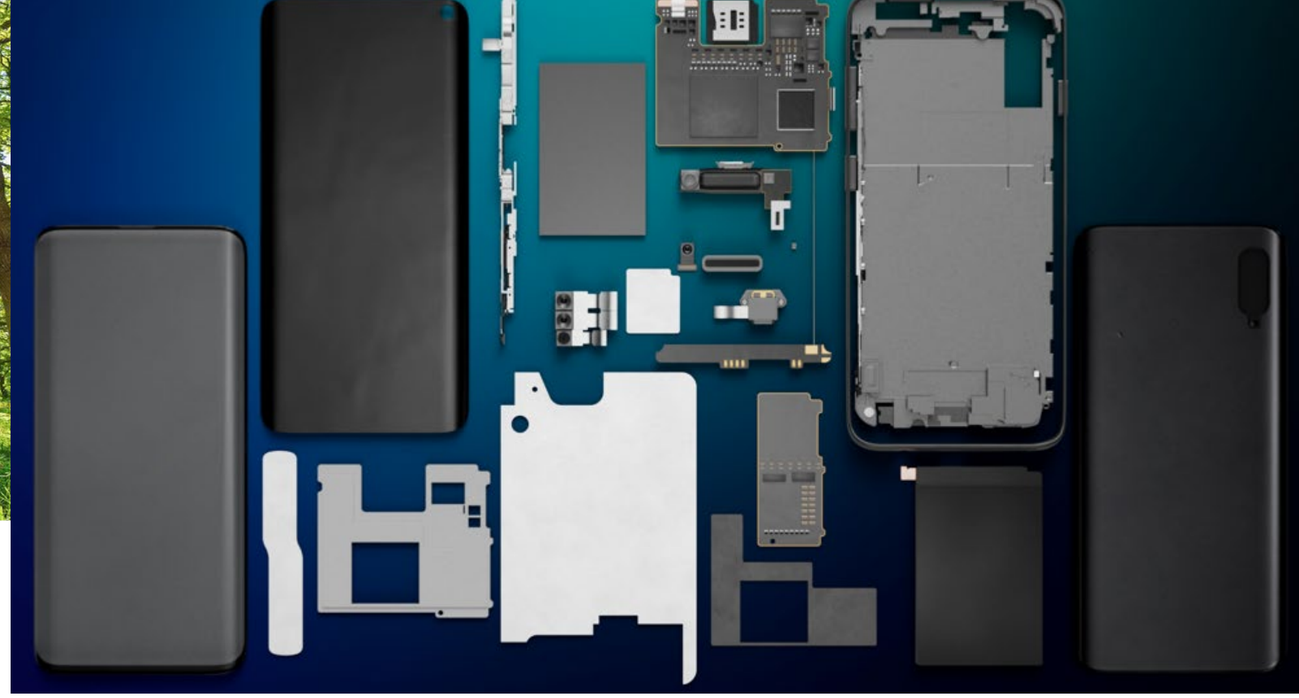
1 Cover lens mounting
2 Display lamination
3 Display bottom lamination
4 FPC & antenna mounting
5 Mesh / vent mounting
6 Covering and insulation
7 Battery mounting
8 Grounding and shielding
9 Thermal management
10 Side key mounting
11 Soft goods mounting
12 Back cover / sensor lens mounting

Tapes for your success – Tablets



1 Cover glass frame mounting
2 Sealing and cushioning
3 Covering applications
4 Display lamination
5 Shielding and grounding
6 Thermal management and graphite sheet lamination
7 Component mounting
8 Battery mounting

We are strongly committed to sustainability



Sustainability and performance go hand in hand

Many of our customers embrace our commitment to sustainable business, and we are proud to showcase our more sustainable product developments that enable technological progress. 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.

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.

Additionally, we are enabling easy repairability and recyclability of electronic devices with our innovative technologies and solutions. Production-wise we focus on solvent-free production processes and technology to reuse solvents.

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

Reduction of 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. Green energy is a key pillar of our commitment. Since 2020, we have sourced 100 percent of our purchased electricity from renewable energy sources.

As a testimony to self-sustained clean energy procurement, we have newly installed photovoltaic systems in tesa plants Offenburg and Haiphong that cover up to 25% of the plants' electricity demand.

Responsible sourcing

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.

By 2030 at least 80% of our spend will go to suppliers that are aligned with our sustainability standards.

Use of recycled and bio-based materials

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

In 2023, we have launched 8 more sustainable products for the electronics sector, and we are currently 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.

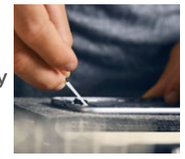
We have a comprehensive carbon footprint database, and we are continuously improving our data quality. Additionally, we conduct external life cycle assessments to ensure a science-based approach.

Circularity and reduction of waste

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. By 2025, we want to eliminate all landfill disposal of production-related waste.

In 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.

Enable sustainability at customer



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 has developed the famous tape tesa® Bond & Detach in the last decade which enables mechanical release with residue-free removability. And tesa is now at the forefront of revolutionizing the industry with our groundbreaking "Debonding on Demand" adhesive tapes.

With an impressive portfolio of over 50 patents filed, we ensure reliable bonding performance, offer smart debonding options, and enable maximum design freedom for our customers.

Structural bonding solutions

The best reliability for the toughest demands

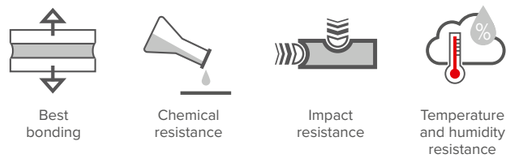
tesa® structural bonding solutions provide high bonding performance to a wide variety of substrates. They withstand the harshest conditions by combining outstanding chemical and aging resistance. The processing of these adhesive systems is simplified due to excellent die cuttability, immediate handling 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. tesa® LTT is a low temperature thermoplastic film designed for soft goods assembly requiring low processing temperatures.

Light-curing 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.

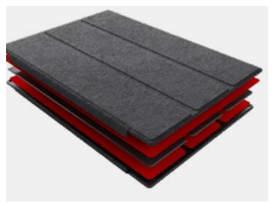
Features

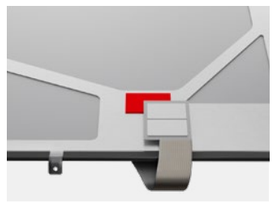


Typical applications

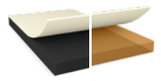
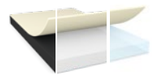
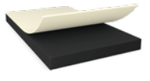
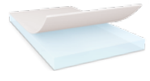
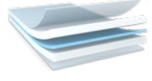
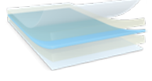

Component mounting


Cover lens mounting


Soft goods bonding


FPC mounting

Assortment overview

		Heat-activated films	Low-temperature activated films			Light-curing tapes	
		tesa® HAF	tesa® LTR	tesa® LTC	tesa® LTT	tesa® UV epoxy NEW	tesa® L-tape NEW
	Design						
	Color	Black, amber	Black, white, translucent	Black	Translucent	White	Translucent
	Adhesive	Nitrile rubber/phenolic resin	Cross-linkable polyurethane	Cross-linkable polyurethane	Thermoplastic polyurethane	Light curable	Light curable
	Activation temperature [°C]	>120	>75	>75	>80	Room temperature	Room temperature
	Special features	Temperature resistance, chemical resistance	Impact resistance, wettability on fabrics	Impact resistance, chemical resistance	High peel adhesion to fabrics	Activation at room temperature, reworkability	Activation at room temperature, impact resistance
Thickness	10 µm	● 58469					
	20 µm	● 58477					
	25 µm						
	30 µm	● 58471 ● 8471	○ 8711		○ 8741		
	50 µm	● 58470	● 58480 ○ 8710 ○ 8722	● 58722	○ 8742		○ 8692
	60 µm	● 8472					
	80 µm	● 58473 ● 8473					
	100 µm	● 58474 ● 8474	● 58484 ○ 8714	● 58724		○ 8684	○ 8694
	125 µm	● 58475 ● 8475					
	150 µm	● 58476 ● 8476	● 58486				
	200 µm	● 58478 ● 8478	● 58488				○ 8698
	300 µm		● 58489				
Product performance	Reference product	● 58474	● 58484	● 58724	○ 8742**	○ 8684	○ 8694
	Reference substrate	SUS/SUS	PC/PC	Al/Al	PC/PC	PC/PC	Al/PC
	Push-out [MPa]	>5.5	>5.5	>4.0	>2.5	>2.5	>3.0
	DuPont [J; xy/z]	>0.5	>4.0	>1.0	n.a.	>0.5	>1.0
	Reliability*	●●●●	●●●	●●●●	●●	●●●	●●●
	Chemical resistance*	●●●●	●●	●●●	●	●●	●●

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

● Amber ○ Translucent ○ White ● Black

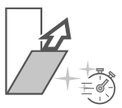
Bond & Detach®

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

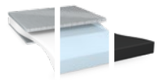
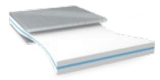
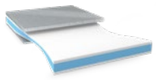
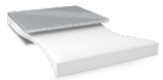
Battery mounting in mobile devices

Removable mounting of devices or accessories

Temporary fixation of components

Mounting of valuable components

Assortment overview

		tesa® 704xx/703 /706xx	tesa® 672xx	tesa® 770xx	tesa® 648xx	tesa® 705xx
Design						
Color		White, transparent, black	White	Translucent white	White	White
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	Anti-repulsion, temp. resistance
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	○ 70525
	300 µm	○ 70430 ● 70630			○ 64830	
	350 µm	● 70635				
	400 µm	○ 70440 ● 70640				
	500 µm	○ 70350 ● 70650	×			○ 70550
	650 µm	○ 70465 ● 70665				
	800 µm	○ 70480 ● 70680				
	1,000 µm	○ 70499 ● 70699				
	1,300 µm	● 70697				
Product performance	**Reference product**	○ 70415 ○ 70315 ● 70615	○ 67215	○ 77015	○ 64815	○ 70525*
	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
	Peel adhesion [N/cm; initial/ultimate] PE	7.0/7.0	6.0/6.0	7.0/8.0	8.0/8.0	9.0/9.0
	DuPont [J; xy/z]	0.7/0.3	1.1/0.8	1.1/0.8	1.0/0.7	1.0/0.7
	Tumbler [cycles]	Upon request	>500	500	500	Upon request
	Removing force [N/cm]	4.0	5.0	4.0	4.0	6.0

* Deviating thickness
** Upon request

○ Transparent ○ 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

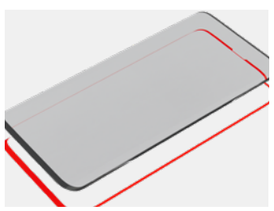
High bonding

Impact resistance

Water-proofing

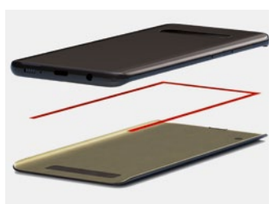
Chemical resistance

Typical applications

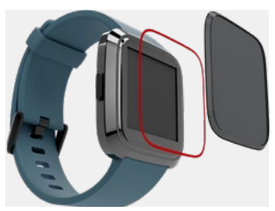


Cover glass frame mounting

Back cover mounting

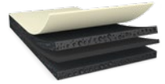
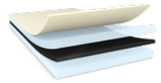
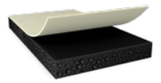
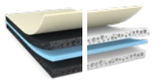


Display bottom mounting



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
50 µm		● 75405			● 75881	
100 µm		● 75410		● 76010	● 75882	● 75710
150 µm		● 75415		● 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				
Reference product	● 75120	● 75620	● 61086	● 76020	● 75884	● 75720
Peel adhesion [N/cm; initial/ ultimate]	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

Your partner for co-development

We have more options available in our portfolio, and by partnering with you we can create unique and specialized products that meet your individual demands. **Simply write to us or contact your local representative: electronics@tesa.com**

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

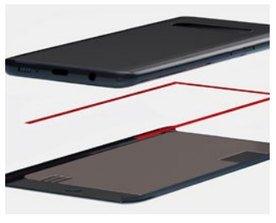
Water-proofing

Typical applications

Cover glass frame mounting

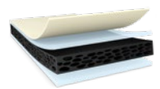
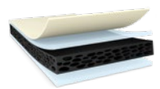
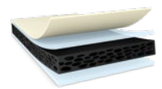
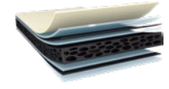
Back cover mounting

Camera lens mounting



Display bottom mounting

Assortment overview

		tesa® 6208x	tesa® 668xx	tesa® 626xx	tesa® 6216x	tesa® 66425
Design						
Color		Black	Black, white	Black	Black	Black
Adhesive		Acrylic	Acrylic	Acrylic	Special	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	Fast heat removal	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	● 62166	
	350 µm	● 62087				
	400 µm	● 62088	● 66828			
	Reference product	● 62086	● 66826	● 62626	● 62166	● 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
	Peel adhesion [N/cm; initial/ ultimate] PC	11/14.5	12.5/16.0	15.0/16.0	Provided per request	Provided per request
	Push-out [N]	220	252	180	180	210
	DuPont [J; xy/z]	0.52/0.5	0.88/0.77	0.48/0.42	0.55/0.65	0.49/0.47
	Compression force at 25% [kPa]	365	515	200	400	320
	Rework-ability*	●●●	●●●	●	●●●●	●●●●
	Anti-repulsion*	●●●●	●●●	●	●	●●

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

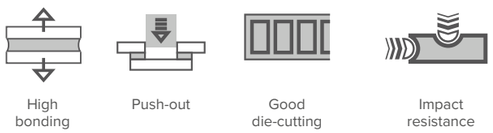
● Black

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.

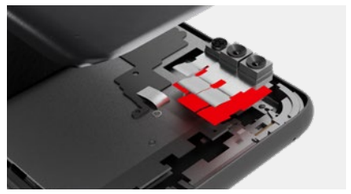
Features



Typical applications

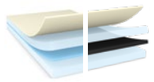
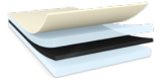
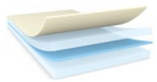
Cover glass frame mounting

Battery mounting



Component mounting

Assortment overview

		tesa® 613xx	tesa® 618xx	tesa® 6896x
Design				
Color		Transparent, black	Black	Transparent
Adhesive		Tackified acrylic	Modified acrylic	Specialty
Backing		PET	PET	PET
Special features		Push-out resistance, bonding strength	Push-out resistance, impact resistance, LSE performance	Quick bonding, LSE performance
Thickness	**30 µm**			○ 68960
	50 µm	○ 61305 ● 61350		○ 68962
	100 µm	○ 61360 ● 61365	● 61865	○ 68964
	125 µm	○ 61370 ● 61375		
	150 µm	○ 61380 ● 61385	● 61885	
	200 µm	○ 61390 ● 61395	● 61895	
	230 µm	● 61345	● 61845	
	250 µm	● 61325	● 61825	
	300 µm	● 61315	● 61815	
Product performance	**Reference product**	● 61365 ○ 61360	● 61865	○ 68964
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	13.7/16.5	11.0/12.0	17.0/17.5
	Push-out [N]	230	240	255
	DuPont [J; xy/z]	0.5/0.2	0.7/0.3	0.7/0.6

○ Transparent ● Black

Double-sided film tapes

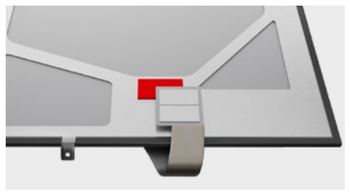
Specialized performance profile

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



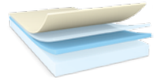
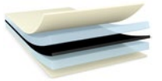
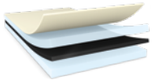
FPC mounting

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® 615xx	tesa® 612xx/6128x	tesa® 6881x	tesa® 885x
Design						
Color		Transparent	Transparent	Black	Black	Translucent
Adhesive		Tackified acrylic	Silicone/acrylic	Specialty	Tackified acrylic	Tackified acrylic
Backing		PET	PET	PET	PET	Non-woven
Special features		Anti-repulsion, easy activation	Si/Ac differential, LSE	Chemical resistance, shear	LSE, high tack, impact resistance	Temperature resistance
Thickness	**30 µm**	○ 66930	○ 61526			○ 8851
	50 µm	○ 66932	○ 61532	● 61250/61282	● 68812	○ 8853 ○ 8857
	80 µm				● 68813	
	100 µm	○ 66934	○ 61528	● 61210/61284	● 68814	○ 8854
	140 µm		○ 61529			
	150 µm			● 61215/61286		
	200 µm		○ 61520	● 61220/61287	● 68817	
	250 µm			● 61288		
Product performance	**Reference product**	○ 66934	○ 61528	● 61210	● 68814	○ 8854
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	10.7/11.6	Si: 4.0/4.4 Ac: 11.3/12.6	12.4/13.2	13.5/14.0	8.3/9.5
	Push-out [N]	143	Upon request	260	130	Upon request
	DuPont [J; xy/z]	0.7/0.2	Upon request	1.1/0.7	0.9/0.5	Upon request

○ Transparent ● Black ○ Translucent

Solutions with sustainable contribution

We are continuously increasing our range of products with sustainable aspects to help our customers achieve their own sustainability goals. We are willing to offer products that have the lowest possible impact on the environment throughout their life cycle. The use of recycled and bio-based raw materials plays a particularly important role here. In our product development, we focus on the design and integration of various more sustainable building blocks in order to provide our customers with the greatest possible flexibility in the selection of products. Reach out to us, learn more about this exciting development, and become part of it!

Double-sided film tapes

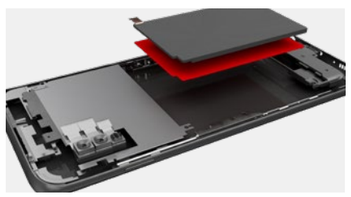
Well-balanced performance profile

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.

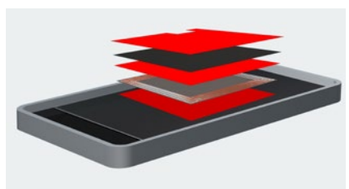
Features

- Balanced properties
- Easy die-cutting

Typical applications



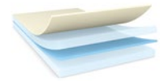
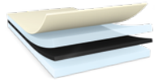
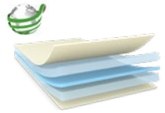
Battery mounting



Graphite sheet lamination

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® 6887x
Design			
Color	Transparent	Black	Transparent
Adhesive	Tackified acrylic	Tackified acrylic	Bio-based acrylic (75% bio-based carbon content)
Backing	PET	PET	PCR PET (100% PCR content)
5 µm	○ 4912		
30 µm	○ 4983	● 51983	○ 68873
50 µm	○ 4972	● 51972	○ 68875
80 µm	○ 4980	● 51980	
100 µm	○ 4982	● 51982	○ 68877
125 µm	○ 4928	● 51928	
140 µm	○ 4942		
150 µm			○ 68878
160 µm	○ 4967	● 51967	
200 µm	○ 4965	● 51965	○ 68879
250 µm	○ 4926	● 51926	
Reference product	○ 4982	● 51982	○ 68877
Peel adhesion [N/cm; initial/ ultimate]	11.0/11.7	11.0/11.7	12.6/12.8
Push-out [N]	230	230	Upon request
DuPont [J; xy/z]	0.5/0.2	0.5/0.2	Upon request

○ Transparent ● Black

Can't find the right solution?

We have more options available in our portfolio, and by partnering with you we can create unique and specialized products that meet your individual demands. **Simply write to us or contact your local representative: electronics@tesa.com**

Covering tapes

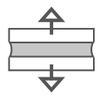
More functionality for electronic devices

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

Anti-repulsion

Light blocking

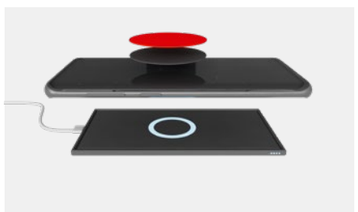


High bonding

Modern appearance

Typical applications

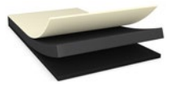
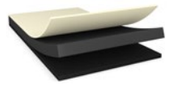
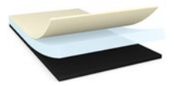
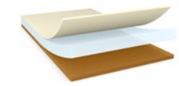
Light blocking in LCD backlight unit



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			
	8 µm				
	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

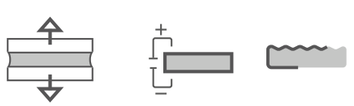
Double-sided electrically conductive tapes

For applications requiring grounding

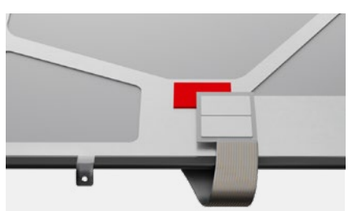
By offering a broad assortment of filled acrylic adhesive systems, with a balance between electrical conductivity and adhesive properties, we are able to provide the best solution for your requirements. Simply decide what is the most important for your application: bonding performance, conductivity,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



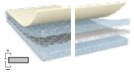
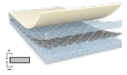
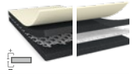
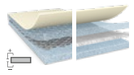
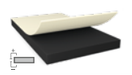
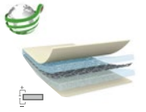
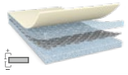
Typical applications



FPC grounding

Component grounding

Assortment overview

	tesa® 6025x/6026x	tesa® 6036x	tesa® 6037x	tesa® 6038x	tesa® EC HAF 5845x	tesa® 6066x	tesa® 60250
Design							
Color	Gray	Gray	Black	Gray	Black	Gray	Gray
Adhesive	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive structural adhesive	Conductive bio-based acrylic	Conductive acrylic
Backing	Woven, non-woven	Woven	Woven, non-woven	Woven, non-woven	-	PCR PET conductive fabric	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	Balanced properties	High appearance quality
17 µm	◍ 60267						
25 µm	◍ 60261						
30 µm			● 60371	◍ 60380	● 58451		◍ 60250
35 µm	◍ 60260						
50 µm	◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60386	● 58452	◍ 60665	
55 µm	◍ 60251 ◍ 60252						
70 µm	◍ 60253						
100 µm	◍ 60254	◍ 60364	● 60374	◍ 60384 ◍ 60388		◍ 60667	
150 µm	◍ 60255						
200 µm	◍ 60256						
250 µm	◍ 60257						
Reference product	◍ 60252 ◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60386	● 58452	◍ 60667	◍ 60250
Peel adhesion [N/cm; initial/ ultimate]	5.4/8.3	7.0/8.0	4.3/5.6	8.0/10.0	n.a.		>5
Dynamic shear [N]	n.a.	n.a.	n.a.	n.a.	>7		
Contact resistance [mΩ.inch²]	0.05	0.01	0.01	0.06	0.05	0.05	0.05
Surface resistance [mΩ.sq]	0.2	0.1	0.1	0.3	0.5	0.2	0.2
Shielding effectiveness [-dB]	>50	>60	>50	>50	~40		

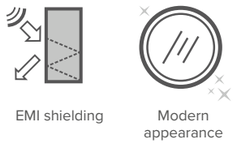
● Black ◍ Gray

Single-sided electrically conductive tapes

For shielding and covering applications

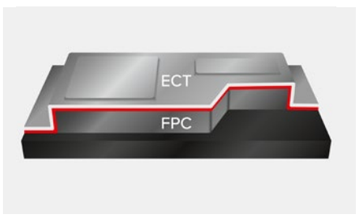
Covering and shielding applications are broad and have different requirements for conductivity, adhesion, and design. Our single-sided ECT assortment meets the latest requirements for shielding and appearance.

Features

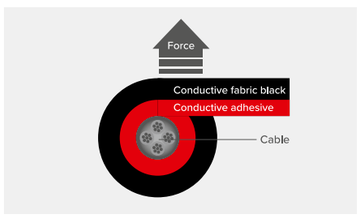


Typical applications

MLB covering

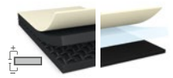
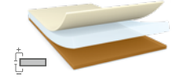
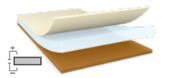
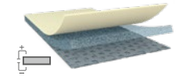


Component shielding



Wire wrapping

Assortment overview

		tesa® 6023x	tesa® 6033x	tesa® 6053x	tesa® 6031x	tesa® 6034x
	Design					
	Color	Matte black	Matte black	Orange	Orange	Gray
	Adhesive	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic
	Backing	Fabric, copper	Copper	Copper	Copper	Fabric
	Special features	Modern, matte black design	Modern, matte black design with high shielding	Excellent bonding	Low-pressure activation, high conductivity	Low-pressure activation, high conductivity
Thickness	**20 µm**		● 60332			
	25 µm	● 60231				
	30 µm		● 60333	● 60537	● 60317	● 60347
	35 µm	● 60232				
	40 µm		● 60334			
	45 µm	● 60238				
	50 µm			● 60538	● 60318	● 60348
	55 µm	● 60234				
Product performance	**Reference product**	● 60232	● 60333	● 60537	● 60317	● 60347
	Peel adhesion [N/cm; SUS initial/ ultimate]	3.5/4.5	4.0	6.3/7.5	4.6/5.3	3.5/4.8
	Contact resistance [mΩ.inch²]	0.05	0.05	0.05	0.03	0.03
	Surface resistance [mΩ.sq]	0.2	0.1	0.2	0.2	0.2
	Shielding effective-ness [-dB]	>50	>70	>70	>70	>60

● Matte black ● Gray ● Orange

Didn't find what you were looking for?

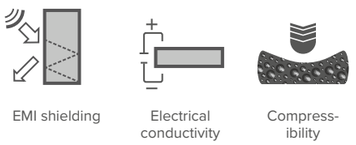
We have more options available in our portfolio, and by partnering with you we can create unique and specialized products that meet your individual demands.

Single-sided electrically conductive foam tapes

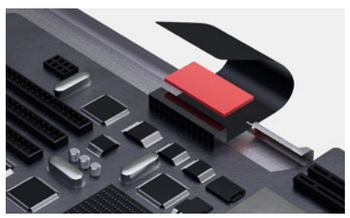
For conductive gap filling

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.

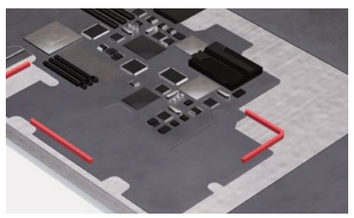
Features



Typical applications

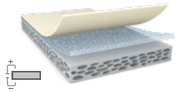
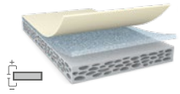
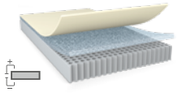


FPC grounding



FPC Shielding

Assortment overview

		tesa® 6021x	tesa® 6068x	tesa® 6024x
Design				
Color		Gray	Gray	Gray
Adhesive		Conductive acrylic	Conductive acrylic	Conductive acrylic
Backing		Soft foam	Ultrasoft foam	Gasket foam
Special features		Excellent electrical conductivity	Excellent compressibility	Abrasion resistance
Thickness	**200 µm**	● 60213		
	300 µm	● 60214		● 60246
	500 µm		● 60685	● 60248
	700 µm		● 60687	● 60249
	1,000 µm		● 60688	
	1,500 µm	● 60217		
	2,000 µm	● 60218		
Product performance	**Reference product**	● 60214	● 60685	● 60248
	Peel adhesion [N/cm; SUS initial/ ultimate]	4.8/8.3	6.0/8.0	4.8/6.3
	Contact resistance [mΩ.inch²]	0.03	0.03	0.03
	Surface resistance [mΩ.sq]	0.2	0.2	0.2
	Shielding effective-ness [-dB]	>70	>60	>70
	Compression force at 50% [N/cm²]	<50	<6	<55
	Recovery rate after 24h [%]	90	96	96

● Gray

Thermal management tapes

Keeping electronic devices cool

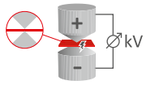
tesa® Thermal Management Tapes provides superior thermal transfer performance with excellent bonding properties. It delivers very good surface wet-out on substrates due to the transfer tape design which helps to maximize the thermal transfer efficiency in electronic devices. The available thickness range, 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

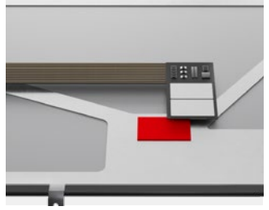
Excellent surface wet-out



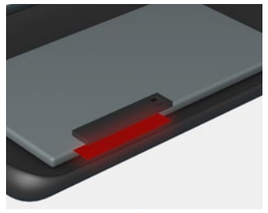
High breakdown voltage

Ultrathin design

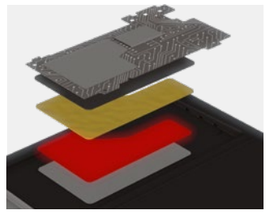
Typical applications



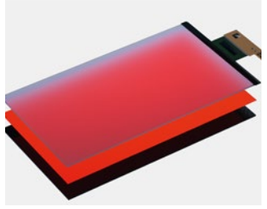
Thermal management



Antenna mounting



Vapor Chamber mounting



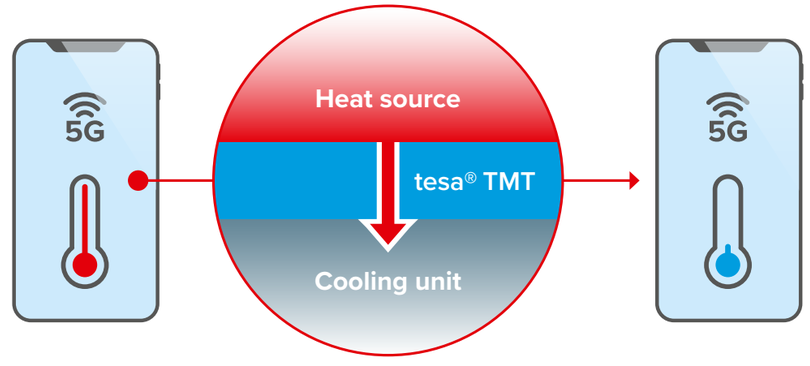
Thermal management for display

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

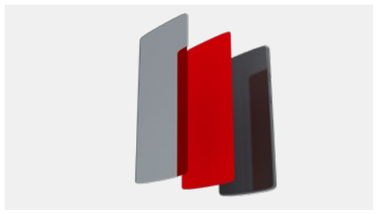


Display tapes

Optically clear adhesives with special features

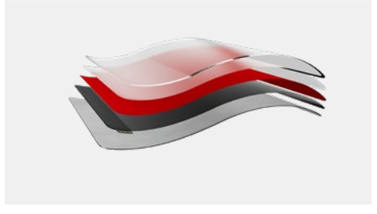
Our comprehensive assortment is designed to provide a solution for every display application. All our materials are produced in a clean room and fulfill optically clear requirements, while also being environmentally stable and compatible with other display layers.

Typical applications

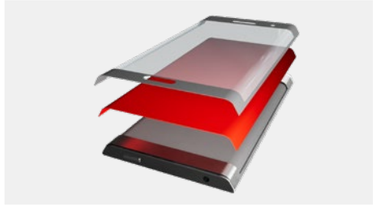


Cover lens lamination

Lamination in VR/AR devices



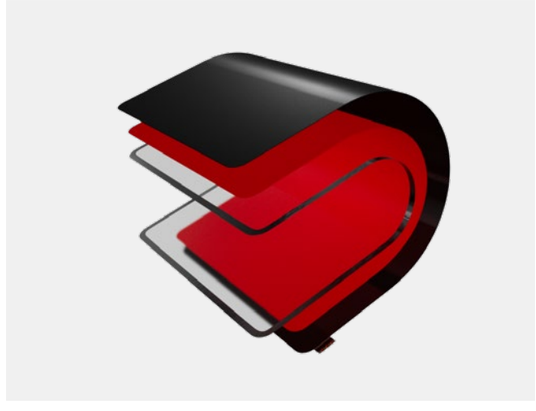
Touch panel lamination



3D cover lens lamination

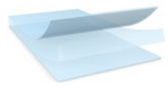
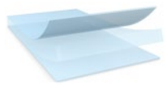
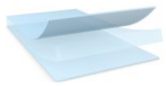
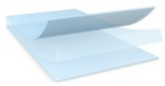
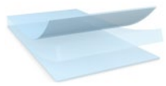
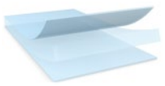
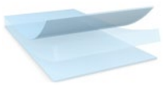
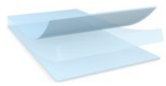
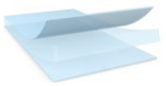
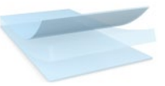
New OCA solutions

In addition to our active assortment, we are constantly developing new adhesive solutions for displays. Our latest innovations include tesa® OCA 693xx for thinner designs and tesa® 71xx with good mura resistance for automotive display. Besides, a range of OCAs that add UV-blocking properties for polarizer less designs are under development.



Flexible layers
Laminating flexible layers within a foldable or rollable display requires excellent peel adhesion and very good bending properties. For some special substrates like silver nanowire, an OCA tape with good compatibility is required. Contact us to learn more about available solutions.

Assortment overview

		tesa® 693xx NEW	tesa® 699xx	tesa® 698xx	tesa® 696xx	tesa® 71xx NEW	tesa® 58xx	tesa® 694xx	tesa® 692xx	tesa® 6973xx	tesa® 6156x	tesa® 6153x
Design												
Color		Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Beige
Type		UV-curable	UV-curable	UV-curable	UV-curable	PSA	PSA	PSA	PSA	PSA	PSA	PSA
UV-curing dosage [mj/cm²]		3,000	1,000	3,000	3,000	-	-	-	-	-	-	-
Special features		High performance for thin design gaps	Curved design lamination	Outgassing resistant	Excellent gap filling	Mura resistance	Outgassing resistant	Lamination of films	UV-block	Foldable lamination	Low dK, low WVTR	Moisture blocking
Thickness*	**15 µm**									○ 69730		
	25 µm	○ 69301	○ 69901					○ 69401		○ 69731	○ 61562	● 61531
	50 µm	○ 69302	○ 69902	○ 69802				○ 69402		○ 69732	○ 61563	● 61533
	75 µm									○ 69733	○ 61564	
	100 µm	○ 69304	○ 69904	○ 69804	○ 69604			○ 69404	○ 69204			
	125 µm				○ 69605			○ 69405				
	150 µm		○ 69906	○ 69806	○ 69606	○ 7106	○ 5806		○ 69206			
	175 µm				○ 69607							
	200 µm		○ 69908	○ 69808	○ 69608	○ 7108	○ 5808		○ 69208			
	250 µm					○ 7110	○ 5810					
	300 µm			○ 69812	○ 69612		○ 5812					
Product performance	**Reference product**	○ 69304	○ 69904	○ 69804	○ 69604	○ 7108	○ 5808	○ 69404	○ 69204	○ 69732	○ 61563**	● 61533**
	Peel adhesion [N/cm; ultimate] Glass	11.8	12	10.2	11.1	8.6	9.1	6.9	6.9	2.4	5.0	6.5
	Peel adhesion [N/cm; ultimate] PET	4.6	10.6	7.6	7.9	7.8	5.7	4.8	4.8	n.a.	3.3	6.0
	Peel adhesion [N/cm; ultimate] PC	14.1	12.6	9.8	10.0	9.4	8.5	7.0	7	n.a.	4.7	6.8
	Transmission [%]	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99	n.a.
	Haze [%]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	n.a.
	Refractive index	1.48	1.48	1.48	1.48	1.48	1.47	1.48	1.48	1.48	1.52	n.a.
	Gap filling [%]	40	15	30	25	20	12	10	5	40	<10	<10
	Dielectric constant[1]	5.7	4.58	4.7	4.5	5.3	6.7	4.9	4.9	5.6	2.56	2.92
	G' [kPa][2]	348	1,620	250	130	69	124	107	106	32	550	Upon request
	WVTR[3] **[g/m²*day]**	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.9	0.4[5]
	Lag time[4] **[h]**	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	25	10,000

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

○ Transparent ● Beige

[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

5
Regional headquarters

Over **7,000**
products

14
Production and converting centers

Over **5,000**
employees

1
Global headquarters

3
Customer Solution Center

Located in **61** affiliates

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.

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01/2024

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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tesa.com/company/locations

tesa.com