Adhesive solutions

Enabling the future of the electronics industry 2022

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 our customers locally. 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.

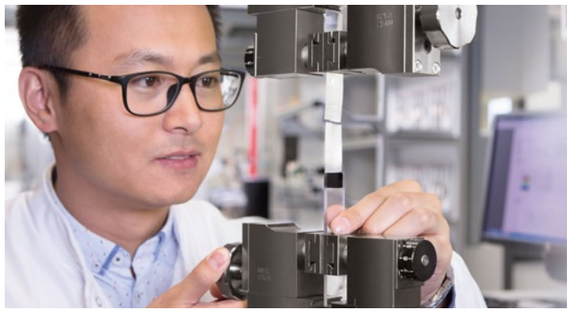
Contents

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.

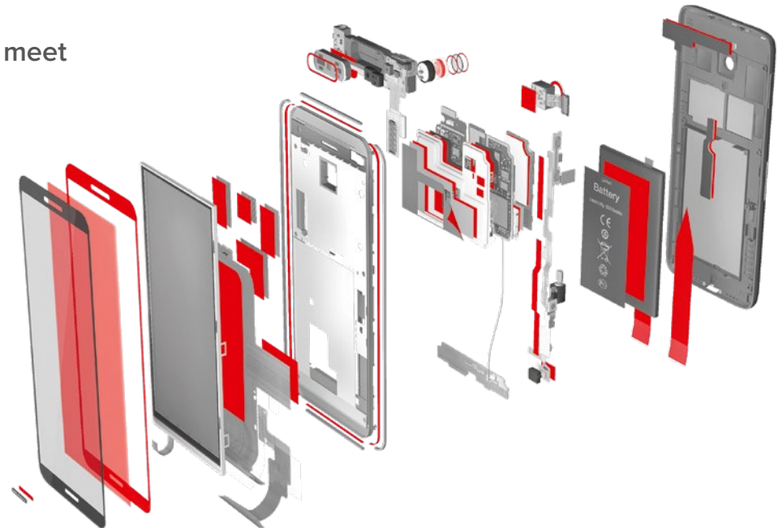
Contact us
Our local experts and engineers are just a phone call away to support you with:

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

Solutions that meet your needs



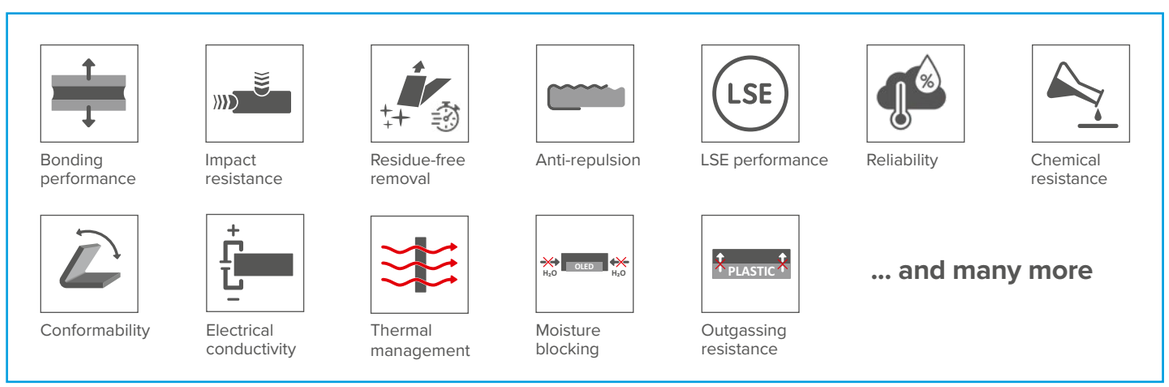
Tape solutions for smartphones

Our products have a proven track record in multiple applications and different devices over the last 20 years in the electronics industry. In this brochure we present an assortment of the most significant tapes from our portfolio. We divide them into the following categories:

- **Mounting Solutions**
- **Functional Solutions**
- **Display Lamination Solutions**

As each project has specific requirements, we offer tailored solutions to each application.
Our mission is to provide you with the best solution. Please contact our local representative to discuss this in detail.

Features of our tapes



Our commitment to sustainability

Just like us, many of our customers are committed to achieving greater sustainability. We support them by enabling them to make technological progress and actively contribute to sustainability through our products.

“Electronic equipment is complex. Intelligent solutions are necessary in order to make it more sustainable – for instance, in order to improve its recyclability. At tesa, we are aiming to play a leading role in this process. Our “Bond & Detach®” products demonstrate what that means in practice. They make it possible to easily remove the individual components of a smartphone – either for repair purposes or at the end of the phone’s life – and to recycle them separately. At the same time, we would like to help extend the life of electronic equipment through our products so that items don’t have to be disposed of so quickly.”

Carsten Meyer-Rackwitz
Corporate Vice President Business Unit Electronics

Development of sustainable solutions

Reducing a product’s carbon footprint while maintaining the same level of quality is a core product development issue for us. In the future, we intend to use an increased volume of raw materials that are more environmentally and climate friendly than conventional raw materials. Here, we evaluate the use of different raw materials. In particular, the use of recycled and bio-based raw materials is currently a key concern for us.

For example, with our new bio-based PET tapes, which use 50% recycled materials for the PET backing and whose adhesive consists of more than 70% bio-based carbon content.

At the same time, we avoid scarce raw materials or raw materials whose extraction places an excessive burden on the environment. We are also looking to make further reductions in our use of solvents during the production process.

Smart products for sustainability

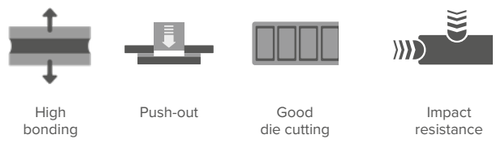
We aim to help our customers work toward a circular economy. Our tesa® Bond & Detach products, for example, assist with this process. If modern smartphones are no longer needed or are broken, it is generally difficult to take them apart. Our tesa® Bond & Detach products make it possible to attach components such as batteries and many other parts so that they remain securely in place until the product life is over. They can then be removed without any difficulty and without leaving any residue. Electronic parts can thus be replaced, properly disposed of, or recycled.

Double-sided film tapes

High performance profile

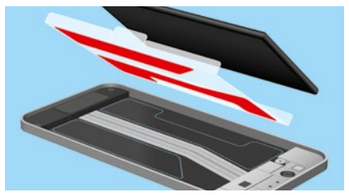
Our high performance profile tapes are the spearhead of our film tapes assortment. All series in this category are characterized by superior bonding performance, which is expressed in peel adhesion, push-out and shear resistance, and high impact resistance. These series are therefore used for demanding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

Features

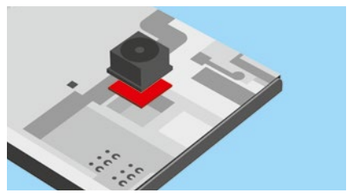


Typical applications

Lens and touch-panel mounting

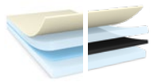
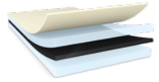
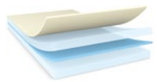


Battery mounting



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, strong bonding	Push-out resistance, impact resistance, LSE performance	Strong bonding, easy activation, 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**	11.9/16.5	11.0/12.0	17.0/17.5
	Push-out [N]	250	240	255
	DuPont [J; xy/z]	0.5/0.2	0.7/0.3	0.7/0.6

○ Transparent ● Black

Double-sided film tapes

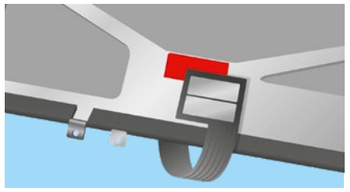
Specialized performance profile

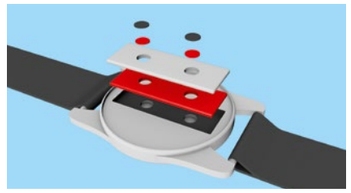
With this assortment, we created double-sided mounting tapes with unique adhesives focusing on the special requirements of certain applications in the electronics industry. Each series within this assortment focuses on a specific property needed in the market. In this section, you will find a selection 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
- Differential designs
- LSE performance
- Chemical resistance
- Bio-based content
- Impact resistance
- Temperature resistance

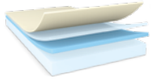
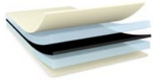
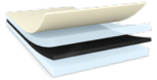
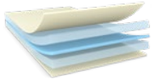
Typical applications





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	tesa® 6887x NEW
Design							
Color		Transparent	Transparent	Black	Black	Translucent	Transparent
Adhesive		Tackified acrylic	Silicone/acrylic	Specialty	Tackified acrylic	Tackified acrylic	Bio-based acrylic
Backing		PET	PET	PET	PET	Nonwoven	PCR PET
Special features		Repulsion resistance, easy activation	Differential design for silicone substrates LSE performance	Chemical resistance, impact resistance	LSE performance, high tack, impact resistance	Temperature resistance	Bio-based PET solution, high bonding
Thickness	**30 µm**	○ 66930	○ 61526			○ 8851	○ 68873
	50 µm	○ 66932	○ 61532	● 61250/61282		○ 8853 ○ 8857	○ 68875
	100 µm	○ 66934	○ 61528	● 61210/61284	● 68814	○ 8854	○ 68877
	140 µm		○ 61529				
	150 µm			● 61215/61286			
	200 µm		○ 61520	● 61220/61287	● 68817		
	250 µm			● 61225/61288			
Product performance	**Reference product**	○ 66934	○ 61528	● 61210	● 68814	○ 8854	○ 68877
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	10.7/11.6	Si: 4.0/4.4 Ac: 10.7/12.6	12.4/13.2	13.5/14.0	8.3/9.5	12.3/13.7
	Push-out [N]	143	Upon request	260	130	Upon request	Upon request
	DuPont [J; xy/z]	0.7/0.2	Upon request	1.1/0.7	0.9/0.4	Upon request	Upon request

○ Transparent ● Black ○ Translucent

Our sustainable solutions

We are continuously increasing our range of sustainable products 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 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

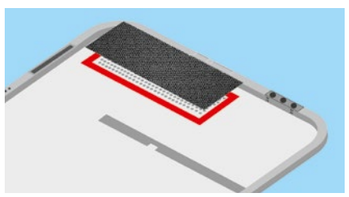
Well-balanced performance profile

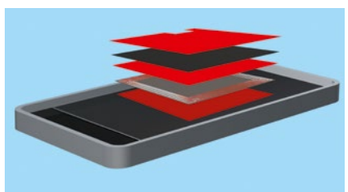
tesa® balanced-performance film tapes are a proven solution for mounting and lamination applications in the electronics industry. The balanced adhesive provides very good tack and bonding performance for many general applications. The PET backing enables easy handling of the tape during converting and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

Features

- Balanced properties
- Good die cutting

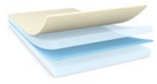
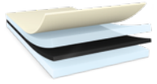
Typical applications





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
Design			
Color		Transparent	Black
Adhesive		Tackified acrylic	Tackified acrylic
Backing		PET	PET
Thickness	5 µm	○ 4912	
	30 µm	○ 4983	● 51983
	50 µm	○ 4972	● 51972
	80 µm	○ 4980	● 51980
	100 µm	○ 4982	● 51982
	125 µm	○ 4928	● 51928
	140 µm	○ 4942	
	160 µm	○ 4967	● 51967
	200 µm	○ 4965	● 51965
	250 µm	○ 4926	● 51926
Product performance	Reference product	○ 4982	● 51982
	Peel adhesion [N/cm; initial/ ultimate] SUS	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

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**

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.

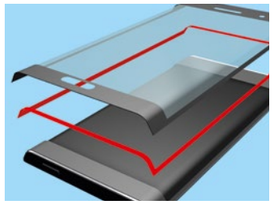
Features

High bonding

Impact resistance

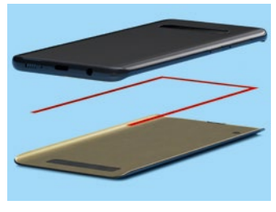
Water-proofing

Typical applications

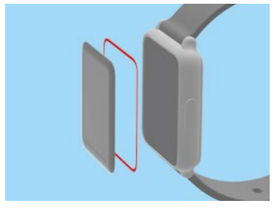


Lens mounting

Back cover mounting

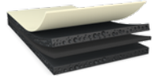
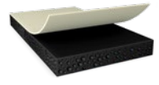
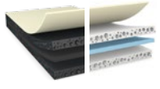
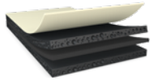


Display bottom



Mounting in wearables devices

Assortment overview

		tesa® 754xx/756xx	tesa® 759xx	tesa® 758xx	tesa® 757xx	tesa® 7017x
Design						
Color		Black	Black	Black	Black, white	Black
Adhesive		Modified acrylic	Acrylic	Acrylic	Modified acrylic	Modified acrylic
Backing		-	PET	-	PET	PET
Special features		Excellent bonding, conformability	Chemical resistance, reworkability	Chemical resistance, excellent shock resistance	Good wetting, reworkability	Anti-stretching, easy activation
Thickness	**50 µm**	● 75405		● 75805		
	100 µm	● 75410		● 75810	● 75710	
	150 µm	● 75415		● 75815	● 75715 ○ 75742	
	200 µm	● 75620	● 75920	● 75820	● 75720 ○ 75743	● 70172
	250 µm	● 75625	● 75925		● 75725 ○ 75745	
	300 µm	● 75630	● 75930		● 75730	● 70174
	350 µm	● 75635				
	400 µm	● 75640				
	450 µm	● 75645				
Product performance	**Reference product**	● 75620	● 75920	● 75820	● 75720	● 70172
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	11.2/17.0	10.2/11.3	8.5/9.6	12.3/13.5	14.0/15.0
	Push-out [N]	220	160	140	205	210
	DuPont [J; xy/z]	1.3/1.0	1.2/0.9	1.5/1.0	0.9/0.8	1.4/1.0
	Remov-ability*	•	•••	•	•••	•••

* Assessment is done only in relation to other products of 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. We believe these functionalities are strongly needed in the market for certain applications. If you require more information than what we have provided here, please contact your local representative.

Features

High bonding

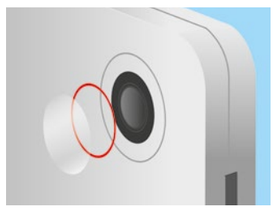
Impact resistance

water-proofing

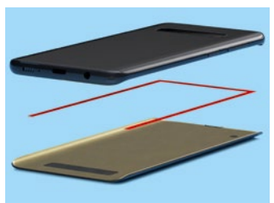
Typical applications

Lens mounting

Back cover mounting

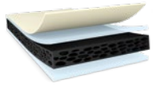
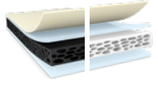
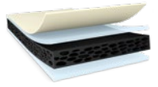
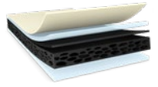
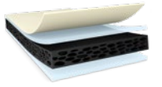


Camera lens mounting



Display bottom mounting

Assortment overview

		tesa® 666xx	tesa® 668xx	tesa® 6262x	tesa® 6264x	tesa® 6698x	tesa® 628xx
Design							
Color		Black	Black, white	Black	Black	Black	Black
Adhesive		Tackified acrylic	Modified acrylic	Tackified acrylic	Tackified acrylic	Acrylic	Tackified acrylic
Backing		PE foam	PE foam	PE foam	PE foam with PET reinforcement	PE foam	PE foam
Special features		Best shear resistance, repulsion resistance	Best impact resistance, repulsion resistance	Best bonding, conformability	Good die cuttability, balanced property profile	Chemical resistance, repulsion resistance	Best repulsion resistance
Thickness	**150 µm**		● 66822				
	200 µm	● 66624	● 66824	● 62624		● 66984	● 62864
	250 µm	● 66625	● 66825 ● 66865	● 62625	● 62645	● 66985	● 62865
	300 µm	● 66626	● 66826 ● 66866	● 62626	● 62646	● 66986	● 62866
	350 µm	● 66627	● 66829				● 62867
	400 µm		● 66828				
Product performance	**Reference product**	● 66626	● 66826	● 62626	● 62646	● 66986	● 62866
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	10.0/12.2	12.5/14.5	13.0/16.0	10.0/13.5	7.8/8.5	7.6/11.5
	PC	11.0/14.3	12.5/16.0	15.0/16.0	11.0/15.5	9.2/15.5	4.8/10.9
	Push-out [N]	248	252	180	180	252	226
	DuPont [J; xy/z]	0.85/0.74	0.88/0.77	0.48/0.42	0.45/0.41	0.81/0.88	0.72/0.70
	Compression force at 25% [kPa]	785	515	200	315	790	835
	Rework-ability*	●●●●	●●●●	●	●●	●●●●	●●●●
	Anti-repulsion*	●●●●	●●●●	●	●	●●●●	●●●●

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

● Black

Special foam tapes

For improved reworkability

These products focus on excellent reworkability, which is provided by specific, tailor-made adhesive designs. Additionally, this series, like the other foam assortments, offers excellent impact resistance and bonding performance.

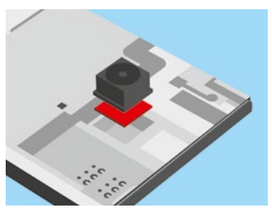
Features

Reworkability

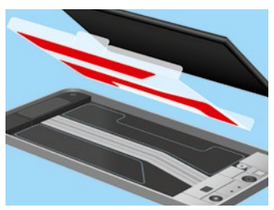
Best bonding

Impact resistance

Typical applications



Component mounting

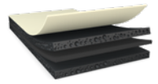
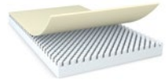


Battery wrapping

Battery mounting

Back cover mounting

Assortment overview

		tesa® 761xx	tesa® 471x	tesa® 473x
Design				
Color		Black	Translucent white	Translucent white
Adhesive		Synthetic rubber	Specialty	Structured specialty
Backing		PET	PU	-
Removal process		Fast and residue-free removal at elevated temperatures	Splittable design, removable by solvents	Structured surface, residue-free removable by solvents
Special features		Quick bonding, LSE performance	× Removable by solvents	Residue-free removal, removable by solvents
Thickness	**50 µm**	● 76105	○ 4715	○ 4735
	80 µm	● 76108	○ 4718	○ 4738
	100 µm	● 76110	○ 4710	
	150 µm	● 76115		
	200 µm	● 76120		
	250 µm	● 76125		
	300 µm	● 76130		
Product performance	**Reference product**	● 76108	○ 4718	○ 4738
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	7.0/7.0	7.0	6.5
	Push-out [N]	230	230	230
	DuPont [J; xy/z]	0.7/0.6	0.7/0.6	0.7/0.8

○ 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 provides the option of being removed residue-free by stretching.

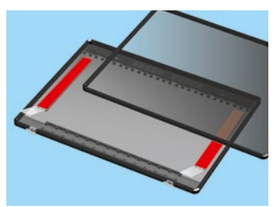
The patented technology was developed by tesa and offers the possibility of simple and secure debonding during the entire product life cycle – from production to end of life. It can also be used for temporary fixation during production processes or transportation. In addition, the whole assortment provides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

Features

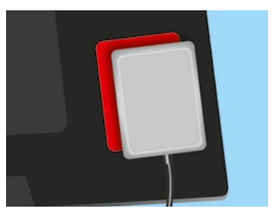
- Fast and residue-free removal
- Best bonding
- Impact resistance
- LSE performance

Typical applications

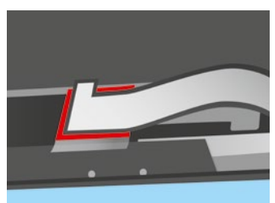
Battery mounting in mobile devices



Mounting of high-value or critical components

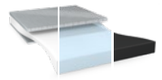
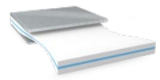
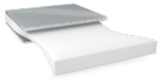


Removable mounting of devices or accessories



Temporary fixation of components

Assortment overview

		tesa® 704xx/703xx/706xx	tesa® 672xx	tesa® 648xx	tesa® 705xx
Design					
Color		White, transparent, black	Translucent white	White	White
Adhesive		Synthetic rubber	Synthetic rubber	Synthetic rubber	Synthetic rubber
Backing		-	PU	Specialty	Specialty
Special features		Best bonding, light blocking	Very good impact resistance	Excellent impact and tear resistance	Anti-repulsion and shear resistance at elevated temperatures
Thickness	**80 µm**		○ 67208		
	100 µm	○ 70410 ● 70610	○ 67210	○ 64810	
	150 µm	○ 70315 ○ 70415 ● 70615	○ 67215	○ 64815 ○ 64816	
	200 µm	○ 70420 ○ 70620		○ 64820	
	250 µm	○ 70425 ● 70625		○ 64825	○ 70525
	300 µm	○ 70430 ● 70630		○ 64830	
	350 µm	○ 70435 ● 70635			
	400 µm	○ 70440 ● 70640			
	500 µm	○ 70350 ● 70650			○ 70550
	650 µm	○ 70465 ● 70665			
	800 µm	○ 70480 ● 70680			
	1000 µm	○ 70499 ● 70699			
	1300 µm	● 70697			
Product performance	**Reference product**	○ 70415 ○ 70315 ● 70615	○ 67215	○ 64815	○ 70525*
	Peel adhesion [N/cm; initial/ultimate] SUS	13.0/13.0	9.0/9.0	11.0/11.0	13.0/13.0
	Peel adhesion [N/cm; initial/ultimate] PE	7.0/7.0	6.0/6.0	8.0/8.0	9.0/9.0
	Peel adhesion [N/cm; initial/ultimate] Black battery pouch	8.0/8.0	7.0/7.0	8.0/8.0	Upon request
	DuPont [J; xy/z]	0.7/0.3	1.0/0.7	1.1/0.8	1.0/0.7
	Tumbler [cycles]	Upon request	400	>500	Upon request
	Removing force [N/cm]	4.0	5.0	4.0	6.0

* Deviating thickness

○ Transparent ○ Translucent ○ White ● Black

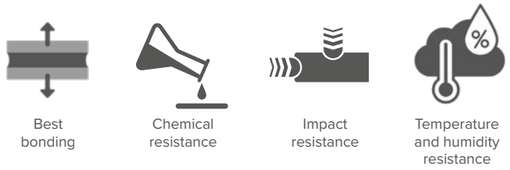
The best reliability for the toughest demands

tesa® structural bonding solutions provide high structural 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.

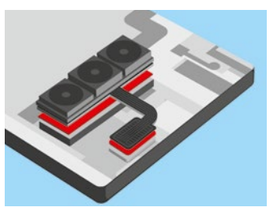
Heat-activated films
tesa® HAF and tesa® XPU are thermosetting adhesive systems. An irreversible cross-linking reaction is initiated by heat and pressure starting at temperatures above 110°C, resulting in extremely strong bonds.

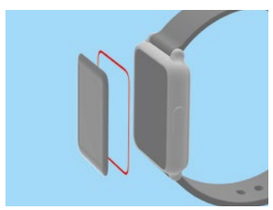
Low-temperature reactive films
Our low-temperature reactive films tesa® LTR and tesa® LTC have been designed for activation at moderate temperatures. The cross-linking starts at a bond-line temperature above 75°C.

Features

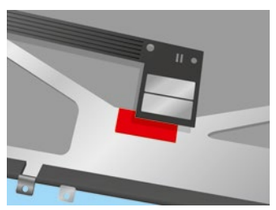


Typical applications

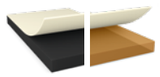
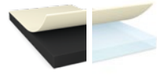
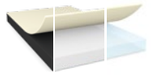
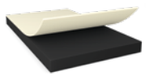

Component mounting


Lens and back cover mounting


Soft goods and accessories


FPC bonding

Assortment overview

		Heat-activated films		Low-temperature reactive films	
		tesa® HAF	tesa® XPU	tesa® LTR	tesa® LTC
	Design				
	Color	Black, amber	Black, translucent	Black, white, translucent	Black
	Adhesive	Nitrile rubber/phenolic resin	Cross-linkable polyurethane	Cross-linkable polyurethane	Cross-linkable polyurethane
	Activation temperature [°C]	>120	>110	>75	>75
	Special features	Temperature resistance, chemical resistance	Impact resistance, low bonding pressure	Impact resistance, wettability on fabrics	Impact resistance, chemical resistance
Thickness	10 µm	● 58469			
	20 µm	● 58477			
	25 µm		● 58701 ○ 8701		
	30 µm	● 58471 ● 8471		○ 8711	
	50 µm	● 58470	● 58702 ○ 8702	● 58480 ○ 8710 ○ 8722	● 58662
	60 µm	● 8472			
	80 µm	● 58473 ● 8473			
	100 µm	● 58474 ● 8474	● 58704 ○ 8704	● 58484 ○ 8714	● 58664
	125 µm	● 58475 ● 8475			
	150 µm	● 58476 ● 8476	● 58706 ○ 8706	● 58486	
	200 µm	● 58478 ● 8478	● 58708 ○ 8708	● 58488	
	300 µm			● 58489	
Product performance	Reference product	● 58474	● 58704	● 58484	● 58664
	Reference substrate	SUS/SUS	AL/PC	PC/PC	AL/AL
	Push-out [MPa]	>5.5	>4.0	>5.5	>4.0
	DuPont [J; xy/z]	>0.5	>3.5	>4.0	>1.0
	Reliability*	●●●●	●●●	●●●	●●●●
	Chemical resistance*	●●●●	●●	●●	●●●

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

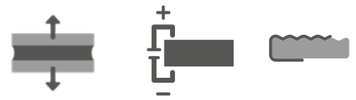
● Amber ○ Translucent ○ White ● Black

Double-sided electrically conductive tapes

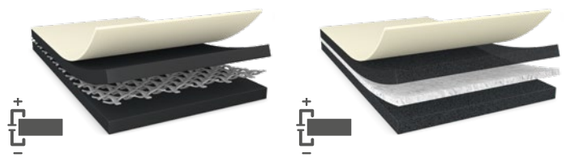
For applications requiring grounding

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.

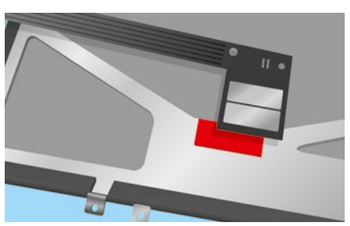
Features



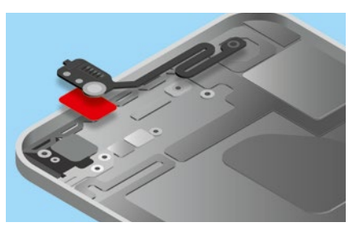
Our double-sided tapes are available with two different backings. The woven backing offers a higher tear resistance, very good dimensional stability, and better reworkability, while the nonwoven backing provides faster wetting, excellent conformability, and very good die cuttability.



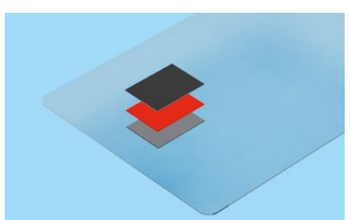
Typical applications



FPC grounding

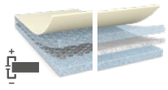
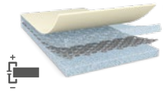
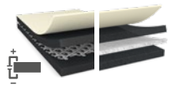
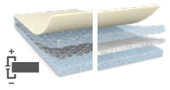
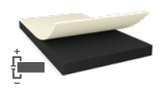


FPC on SUS



Component grounding

Assortment overview

		tesa® 6025x/6026x	tesa® 6036x	tesa® 6037x	tesa® 6038x	tesa® EC HAF 5845x
Design						
Color		Gray	Gray	Black	Gray	Black
Adhesive		Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive structural adhesive
Backing		Woven, nonwoven	Woven	Woven, nonwoven	Woven, nonwoven	-
Special features		Balanced properties	High bonding strength, high conductivity	Best conductivity	Best bonding strength, repulsion resistance	Heat-activated structural bonding film, temperature and humidity resistance
Thickness	**17 µm**	◍ 60267				
	25 µm	◍ 60261				
	30 µm			● 60371		● 58451
	35 µm	◍ 60260				
	50 µm	◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60382	● 58452
	55 µm	◍ 60251 ◍ 60252				
	70 µm	◍ 60253				
	100 µm	◍ 60254	◍ 60364	● 60374	◍ 60384 ◍ 60385	
	150 µm	◍ 60255				
	200 µm	◍ 60256				
	250 µm	◍ 60257				
Product performance	**Reference product**	◍ 60252 ◍ 60262	◍ 60362	● 60372	◍ 60381 ◍ 60382	● 58452
	Peel adhesion [N/cm; initial/ ultimate] SUS	5.4/8.3	7.0/8.0	4.3/5.6	8.0/10.0	n.a.
	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
	Surface resistance [mΩ.sq]	0.2	0.1	0.1	0.3	0.5
	Shielding effectiveness [-dB]	>50	>60	>50	>50	~40

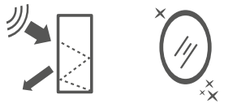
● Black ◍ Gray

Single-sided electrically conductive tapes

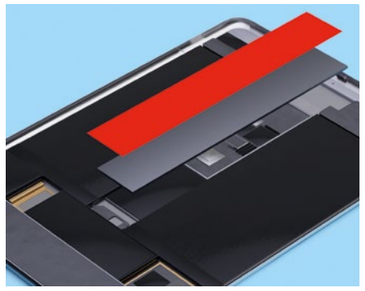
For shielding and covering applications

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.

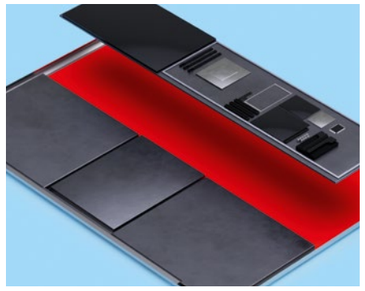
Features



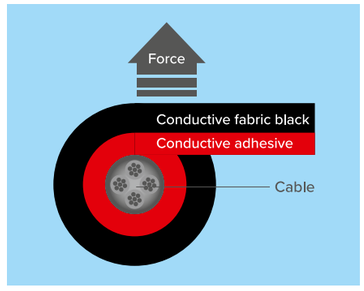
Typical applications



MLB covering

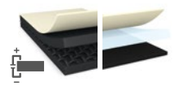
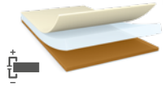
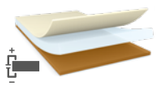
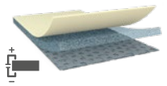


MLB shielding



Wire wrapping

Assortment overview

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

● Matte black ● Gray ● Orange

Didn't find what you were looking for?

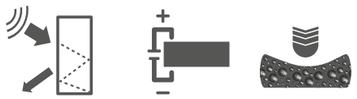
We have more options available in our portfolio, and by partnering with you we can create unique and specialized products that meet your individual demands. **Simply write to us or contact your local representative: electronics@tesa.com**

Single-sided electrically conductive foam tapes

For conductive gap filling

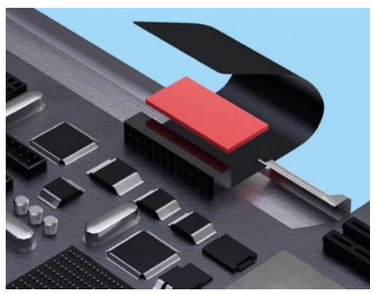
Our single-sided electrically conductive foam tapes can be used for shielding, grounding, and filling gaps. They will provide either outstanding conformability and recovery properties or very high abrasion resistance, depending on the foam material chosen. All series in this assortment have very good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

Features

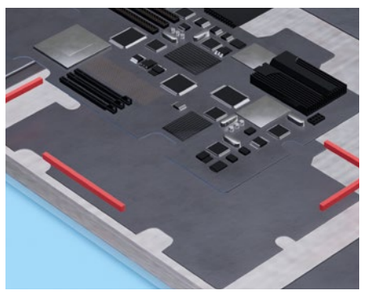


EMI shielding | Electrical conductivity | Compress-ibility

Typical applications

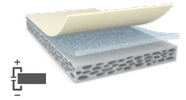
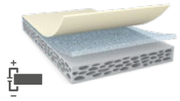
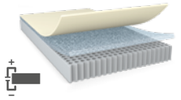


FPC grounding



MLB grounding

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; initial/ ultimate] SUS	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

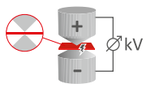
tesa® TMT 6074X provides superior thermal transfer performance with excellent bonding properties. It delivers very good surface wet-out on substrates due to the transfer tape design which helps to maximize the thermal transfer efficiency in electronic devices. The available thickness range starting from ultrathin 10 µm ending at 100 µm offers more flexibility in the device design.

Features

Excellent thermal conductivity

Strong bonding strength

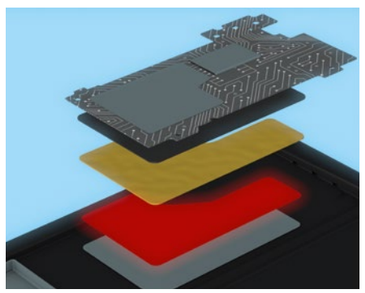
Excellent surface wet-out



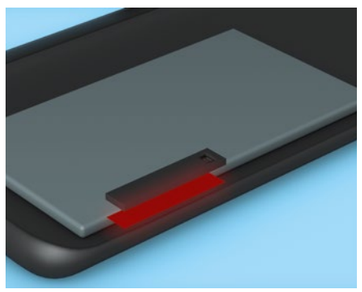
High breakdown voltage

Ultrathin design

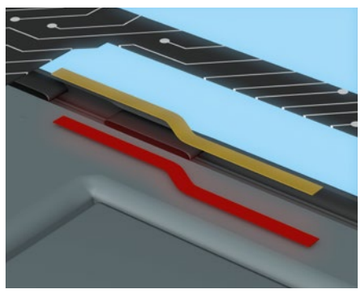
Typical applications



Vapor chamber mounting

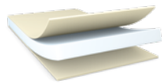


5G-antenna mounting



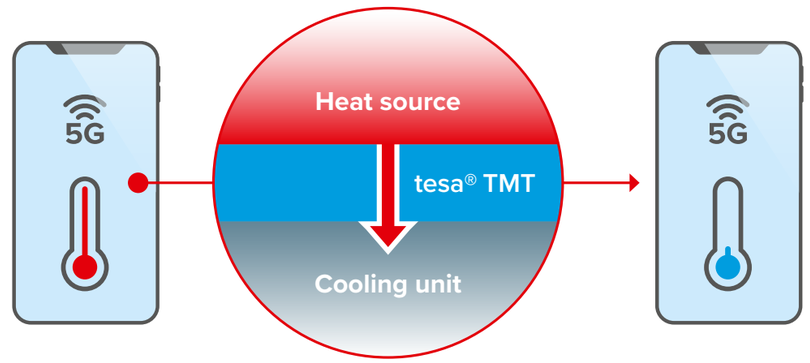
Heat pipe mounting

Assortment overview

		tesa® 6074x
Design		
Color		White
Backing		-
Thickness	10 µm	○ 60742
	30 µm	○ 60743
	50 µm	○ 60744
	100 µm	○ 60745
Product performance	Reference product	○ 60744
	Peel adhesion [N/cm; initial/ ultimate] SUS	5.0
	Thermal conductivity [W/m x K]	1.0
	Wetting [%]	84
	Break-down voltage [kV]	2.9

○ White

Cooling scenario



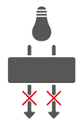
Covering tapes

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

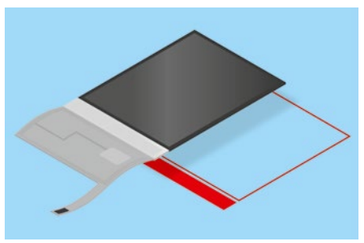


Light blocking

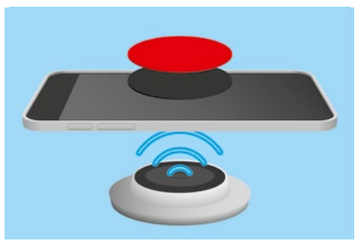
High bonding

Modern appearance

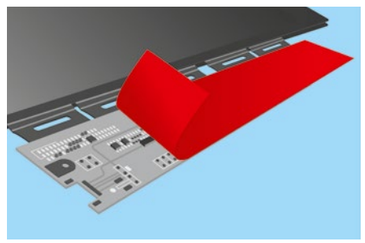
Typical applications



Light blocking in LCD backlight unit

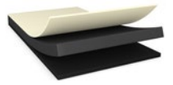
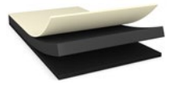
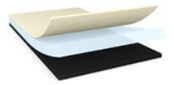
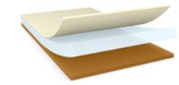


Protection of magnetic sheet and coil in wireless charging



Insulation on PCB and FPC

Assortment overview

		tesa® 79xx	tesa® 71xx	tesa® 673xx	tesa® 663xx
Design					
Color		Matte black	Natural black	Matte black	Amber
Adhesive		Black tackified acrylic	Black tackified acrylic	Tackified acrylic	Tackified acrylic
Backing		PET	PET	PI	PI
Special features		Light blocking, anti-repulsion, dielectric insulation	Light blocking, anti-repulsion, high bonding	Light blocking, anti-repulsion, dielectric insulation, heat resistance	Anti-repulsion, dielectric insulation, heat resistance
Thickness	**5 µm**	● 7905			
	8 µm	● 7908			
	10 µm	● 7910		● 67310	
	20 µm	● 7920		● 67320	● 66320
	30 µm	● 7930		● 67330	● 66330
	50 µm	● 7950	● 7250	● 67350	● 66350
	60 µm		● 7160		
	80 µm		● 7180		
	100 µm		● 7100		
Product performance	**Reference product**	● 7950	● 7250	● 67350	● 66350
	Peel adhesion [N/cm; initial/ ultimate] **SUS**	4.0	4.2	3.5	4.0
	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 only in relation to other products of this assortment

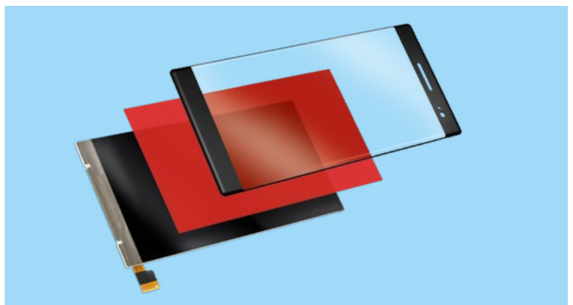
● Amber ● Matte / Natural black

Display tapes

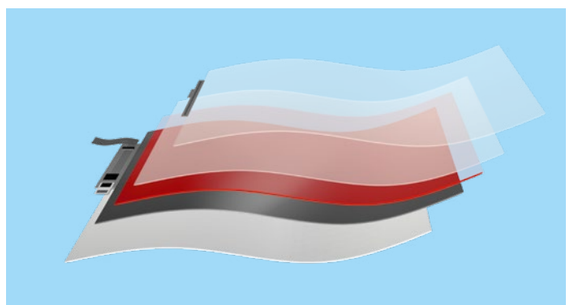
Optically clear design with special features

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



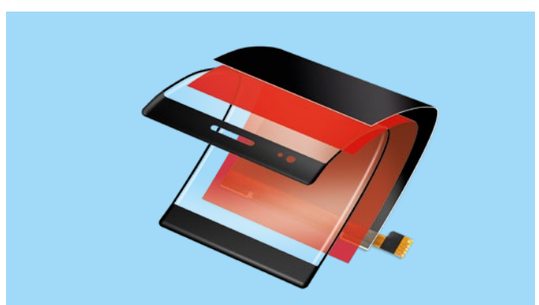
Touch panel lamination

NEW

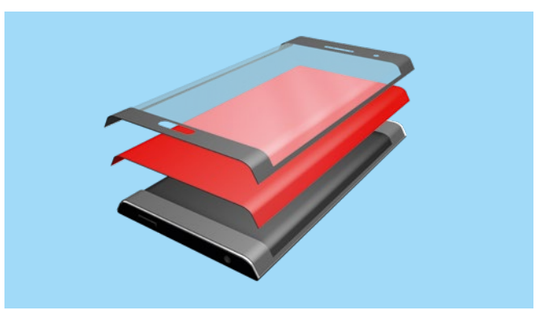
New OCA developments

In addition to our active assortment, we are developing new materials to support handheld devices with **foldable and curved-edge displays**, as well as backside **cushioning tape**. Furthermore, we are developing new **OCA tapes for the automotive industry.**

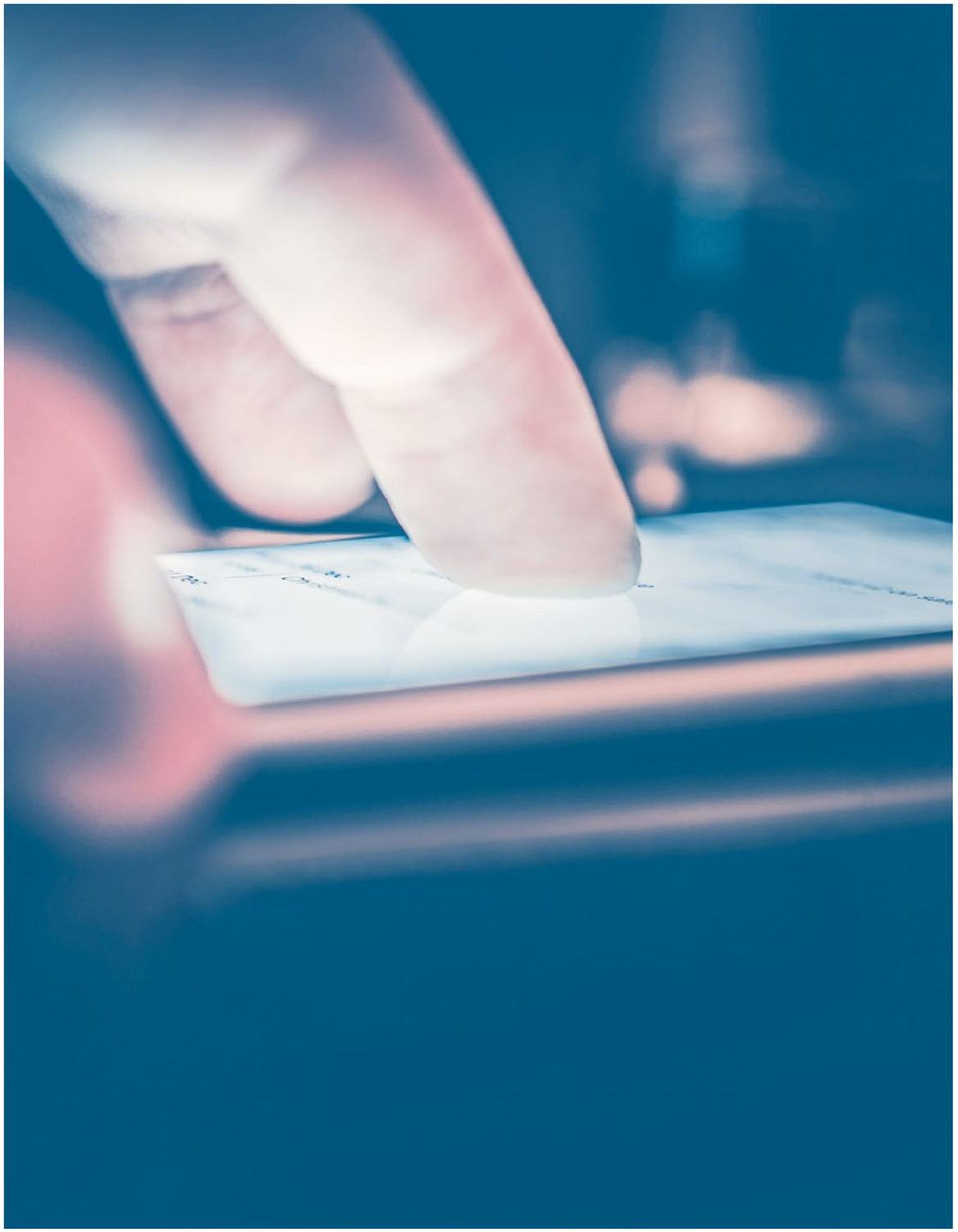
Contact us to find out what's in our product development pipeline: electronics@tesa.com



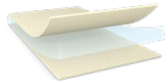
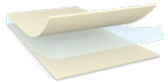
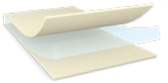
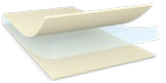
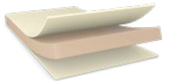
Flexible layers
Laminating flexible layers within a foldable or rollable display requires excellent peel adhesion and very good bending properties. For some special substrates like silver nanowire, an OCA tape with good compatibility is required. The first of such products will be available in May.



Curved display
Laminating a curved cover lens to a flexible OLED display requires low tack for easy lamination and good gap filling to cover ink steps. After UV curing, tapes need to show high bonding strength, resistance to repulsion forces, and very good reliability.



Assortment overview

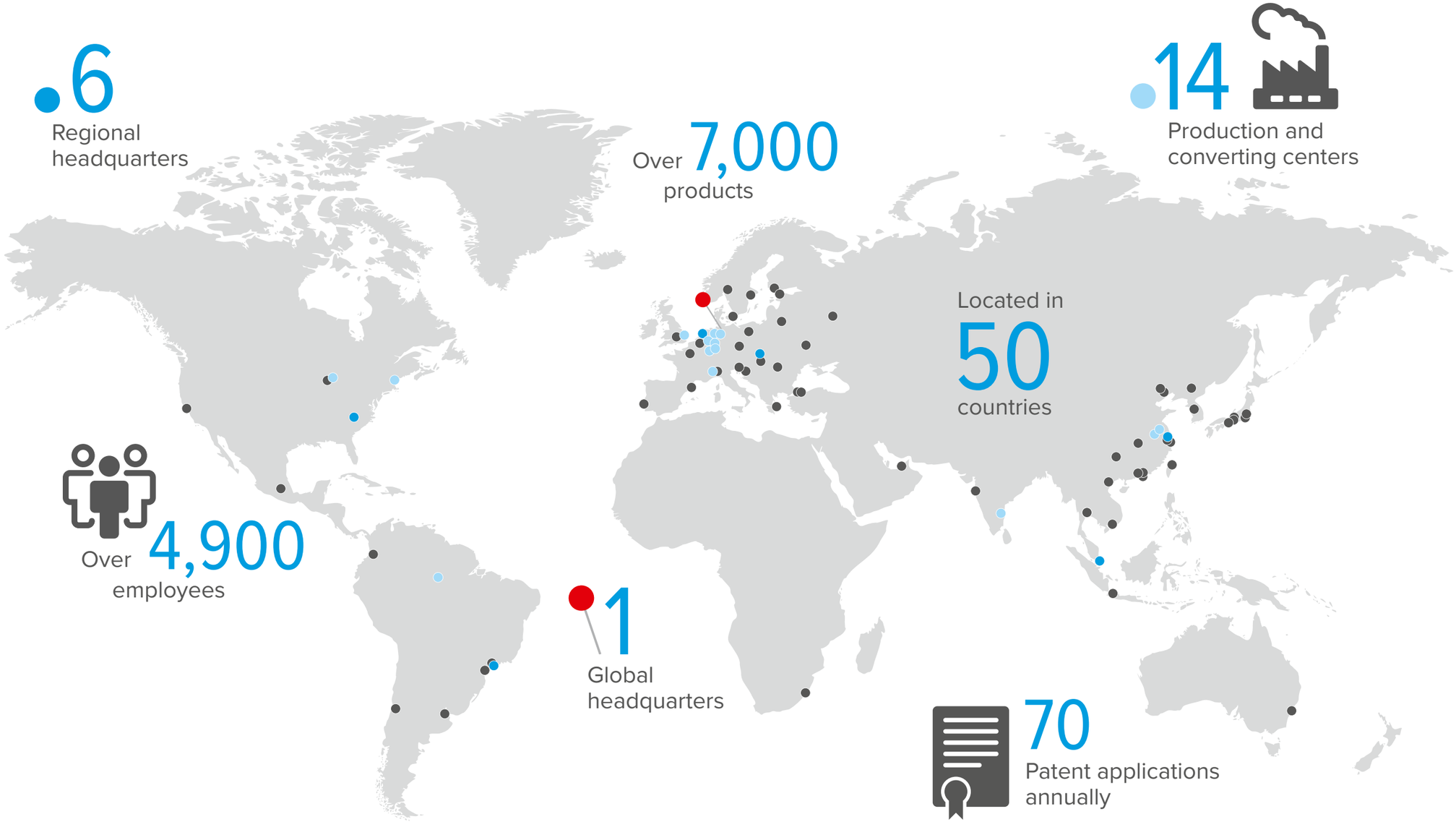
		tesa® 698xx	tesa® 696xx	tesa® 694xx	tesa® 6156x	tesa® 6153x
Design						
Color		Transparent	Transparent	Transparent	Transparent	Beige
Type		UV-curable	UV-curable	PSA	PSA	PSA
Special features		Outgassing resistant	Excellent gap filling	Lamination of films	Low dK, low WVTR	Moisture blocking
Thickness*	**25 µm**			○ 69401	○ 61562	● 61531
	50 µm	○ 69802		○ 69402	○ 61563	● 61533
	75 µm				○ 61564	
	100 µm	○ 69804	○ 69604	○ 69404		
	125 µm		○ 69605	○ 69405		
	150 µm	○ 69806	○ 69606			
	175 µm		○ 69607			
	200 µm	○ 69808	○ 69608			
	300 µm	○ 69812	○ 69612			
	Reference product	○ 69804	○ 69604	○ 69404	○ 61563*	● 61533*
Product performance	**Peel adhesion [N/cm; ultimate] Glass**	10.2	11.1	6.9	5.0	6.5
	Peel adhesion [N/cm; ultimate] PET	7.6	7.9	4.8	3.3	6.0
	Peel adhesion [N/cm; ultimate] PC	9.8	10.0	7.0	4.7	6.8
	Trans-mission [%]	>99	>99	>99	>99	n.a.
	Haze [%]	<0.5	<0.5	<0.5	<0.5	n.a.
	Refractive index	1.48	1.48	1.48	1.52	1.52
	Gap filling [%]	30	25	10	<10	<10
	Dielectric constant[1]	4.7	4.5	4.9	2.56	2.92
	G' [kPa][2]	250	130	107	550	Upon request
	WVTR[3] **[g/m²*day]**	n.a.	n.a.	n.a.	0.9	0.4[5]
	Lag time[4] **[h]**	n.a.	n.a.	n.a.	25	10,000

* Further thicknesses might be available upon request.

○ 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



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01/2022

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