



# 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

	Page
<b>Introduction</b>	
Your complete partner	4
Tapes for your success	5
Our commitment to sustainability	6–7
<b>Mounting solutions</b>	
<b>Double-sided film tapes</b>	<b>8</b>
High performance profile	8–9
Specialized performance profile	10–11
Well-balanced performance profile	12–13
<b>Impact-resistant foam tapes</b>	<b>14</b>
Acrylic foam tapes	14–15
PE foam tapes	16–17
Special foam tapes	18–19
<b>Bond &amp; Detach®</b>	<b>20</b>
Stretch-release tapes	20–21
<b>Structural bonding solutions</b>	<b>22</b>
Heat-activated films	22–23
Low-temperature reactive films	22–23
<b>Functional solutions</b>	
<b>Electrically conductive solutions</b>	<b>24</b>
Double-sided electrically conductive tapes	24–25
Single-sided electrically conductive tapes	26–27
Single-sided electrically conductive foam tapes	28–29
<b>Thermal management tapes</b>	<b>30</b>
Thermal management tapes	30–31
<b>Covering tapes</b>	<b>32</b>
Covering tapes	32–33
<b>Display lamination solutions</b>	
<b>Optically clear adhesive tapes</b>	<b>34</b>
Optically clear adhesive tapes	34–37
<b>Global presence – Contacts</b>	<b>38</b>

# Your complete partner

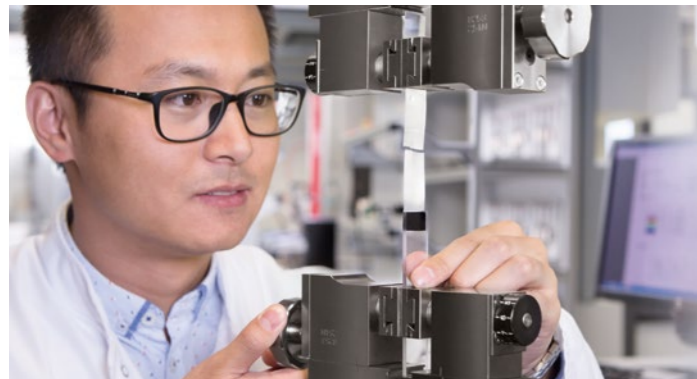
## Solutions that go beyond tape

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

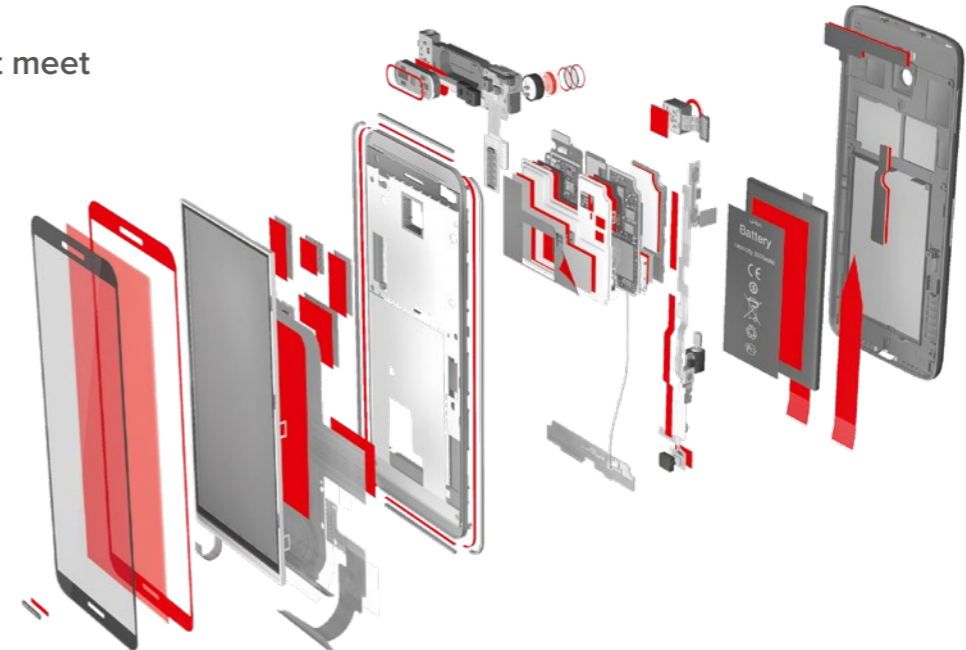
Our local experts and engineers are just a phone call away to support you with:

- 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

Bonding performance	Impact resistance	Residue-free removal	Anti-repulsion	LSE performance	Reliability	Chemical resistance
					... and many more	
Conformability	Electrical conductivity	Thermal management	Moisture blocking	Outgassing resistance		

# 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.

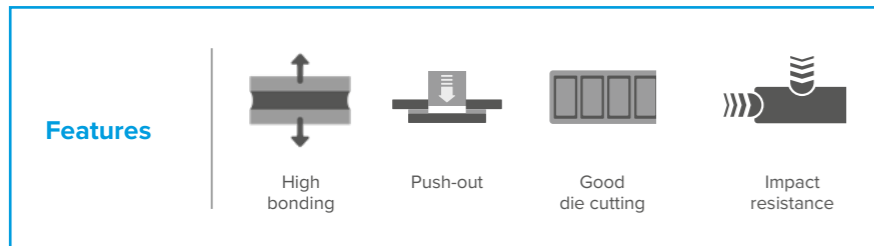
# Double-sided film tapes



## 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,

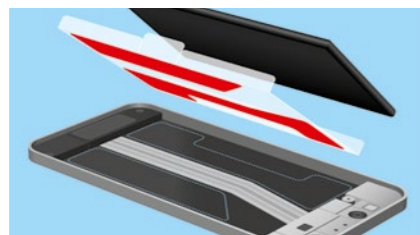
and high impact resistance. These series are therefore used for demanding applications like lens and battery mounting. The PET backings used in these series are very well suited to being die-cut.



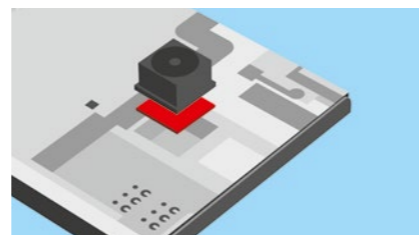
## Typical applications



Lens and touch-panel mounting



Battery mounting



Component mounting

## Assortment overview

	tesa® 613xx	tesa® 618xx	tesa® 6896x
<b>Design</b>			
<b>Color</b>	Transparent, black	Black	Transparent
<b>Adhesive</b>	Tackified acrylic	Modified acrylic	Specialty
<b>Backing</b>	PET	PET	PET
<b>Special features</b>	Push-out resistance, strong bonding	Push-out resistance, impact resistance, LSE performance	Strong bonding, easy activation, LSE performance
<b>Thickness</b>			
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	
<b>Product performance</b>			
<b>Reference product</b>	● 61365 ○ 61360	● 61865	○ 68964
<b>Peel adhesion [N/cm; initial/ultimate]</b>	11.9/16.5	11.0/12.0	17.0/17.5
<b>Push-out [N]</b>	250	240	255
<b>DuPont [J; xy/z]</b>	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**


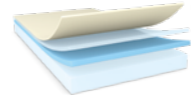
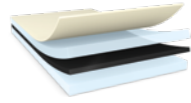

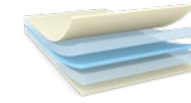
-  Anti-repulsion
-  Differential designs
-  LSE performance
-  Chemical resistance
-  Bio-based content
-  Impact resistance
-  Temperature resistance

## 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 <span style="font-size: small;">NEW</span>	
<b>Design</b>							
<b>Color</b>	Transparent	Transparent	Black	Black	Translucent	Transparent	
<b>Adhesive</b>	Tackified acrylic	Silicone/acrylic	Specialty	Tackified acrylic	Tackified acrylic	Bio-based acrylic	
<b>Backing</b>	PET	PET	PET	PET	Nonwoven	PCR PET	
<b>Special features</b>	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	
<b>Thickness</b>	30 µm	○ 66930	○ 61526		○ 8851	○ 68873	
	50 µm	○ 66932	○ 61532	● 61250/61282		○ 68875	
	100 µm	○ 66934	○ 61528	● 61210/61284	● 68814	○ 68877	
	140 µm		○ 61529				
	150 µm			● 61215/61286			
	200 µm		○ 61520	● 61220/61287	● 68817		
	250 µm			● 61225/61288			
<b>Product performance</b>	<b>Reference product</b>	○ 66934	○ 61528	● 61210	● 68814	○ 8854	○ 68877
	<b>Peel adhesion [N/cm; initial/ultimate]</b>	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
	<b>Push-out [N]</b>	143	Upon request	260	130	Upon request	Upon request
	<b>DuPont [J; xy/z]</b>	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**

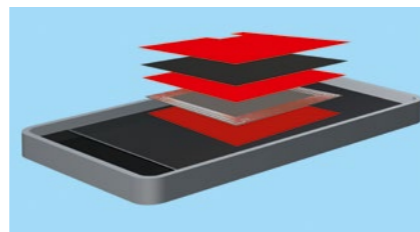
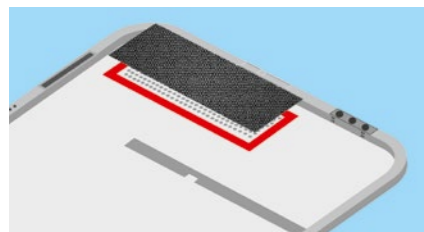


Balanced properties



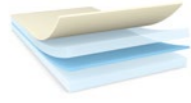
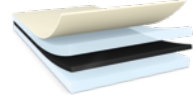
Good die cutting

## 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
	50 µm	○ 4972
	80 µm	○ 4980
	100 µm	○ 4982
	125 µm	○ 4928
	140 µm	○ 4942
	160 µm	○ 4967
	200 µm	○ 4965
	250 µm	○ 4926
Product performance	Reference product	○ 4982
	Peel adhesion [N/cm; initial/ultimate]	11.0/11.7
	Push-out [N]	230
	DuPont [J; xy/z]	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](mailto:electronics@tesa.com)




# Acrylic foam tapes

## For applications with extreme requirements

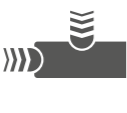
Our acrylic foam tape assortment is especially designed for demanding applications in the electronics industry and is distinguished by its very special bonding capabilities. The high bonding performance is possible due to the tape's viscoelasticity: elastic and viscous characteristics provide inner strength 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

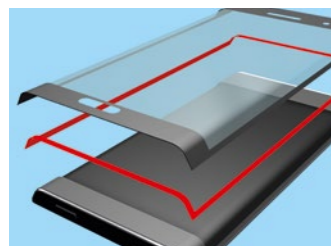


Impact resistance



Waterproofing

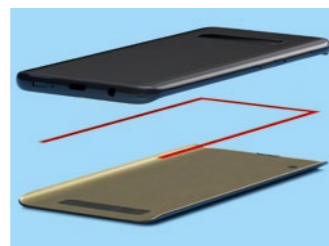
## Typical applications



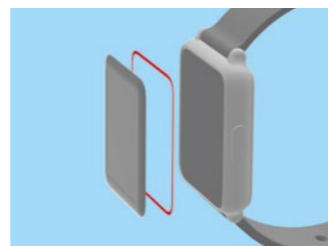
Lens mounting



Back cover mounting

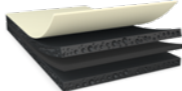
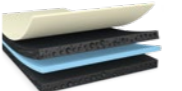

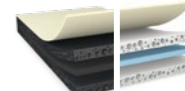
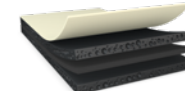


Display bottom



Mounting in wearables devices

## Assortment overview

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

\* 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](mailto: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

waterproofing

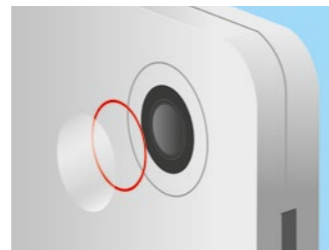
## Typical applications



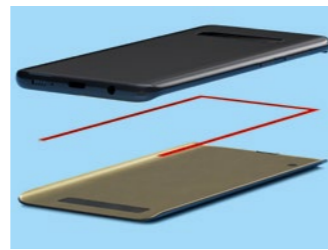
Lens mounting



Back cover mounting



Camera lens mounting



Display bottom mounting

## Assortment overview

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

\* 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

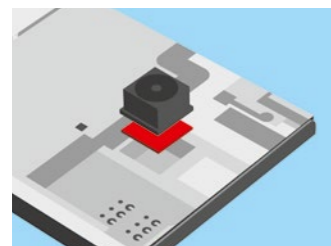


Best bonding

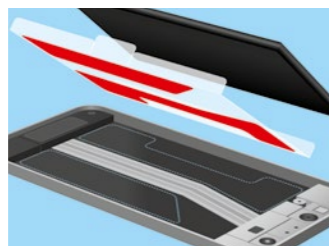


Impact resistance

## Typical applications



Component mounting



Battery wrapping

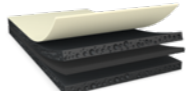

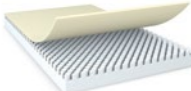


Battery mounting



Back cover mounting

## Assortment overview

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

○ Translucent ○ White ● Black

# Bond & Detach®




## Stretch-release tapes for residue-free removability

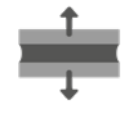
Our Bond & Detach® solutions have revolutionized the removability of adhesives. This tape enables the permanent mounting of components with the option of removing them without residues. Bond & Detach® uses a unique adhesive technology for demanding bonding applications, that provides the option of being 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

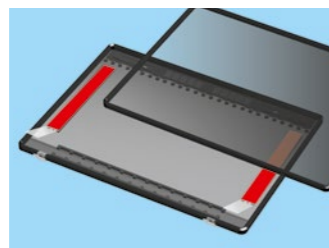


LSE performance

## Typical applications



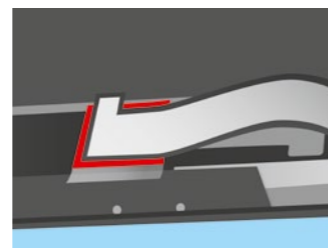
Battery mounting in mobile devices



Mounting of high-value or critical components

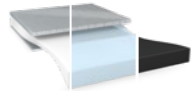
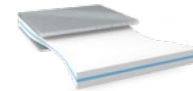




Removable mounting of devices or accessories



Temporary fixation of components

## Assortment overview

	tesa® 704xx/703xx/706xx	tesa® 672xx	tesa® 648xx	tesa® 705xx	
<b>Design</b>					
<b>Color</b>	White, transparent, black	Translucent white	White	White	
<b>Adhesive</b>	Synthetic rubber	Synthetic rubber	Synthetic rubber	Synthetic rubber	
<b>Backing</b>	-	PU	Specialty	Specialty	
<b>Special features</b>	Best bonding, light blocking	Very good impact resistance	Excellent impact and tear resistance	Anti-repulsion and shear resistance at elevated temperatures	
<b>Thickness</b>	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	x		
	800 µm	○ 70480 ● 70680			
	1000 µm	○ 70499 ● 70699			
	1300 µm	● 70697			
<b>Reference product</b>	○ 70415 ○ 70315 ● 70615	○ 67215	○ 64815	○ 70525*	
<b>Product performance</b>	<b>Peel adhesion [N/cm; initial/ultimate]</b>				
	SUS	13.0/13.0	9.0/9.0	11.0/11.0	13.0/13.0
	PE	7.0/7.0	6.0/6.0	8.0/8.0	9.0/9.0
	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
<b>Tumbler [cycles]</b>	Upon request	400	>500	Upon request	
<b>Removing force [N/cm]</b>	4.0	5.0	4.0	6.0	

\* Deviating thickness

○ Transparent ○ Translucent ○ White ● Black

# Structural bonding solutions

## The best reliability for the toughest demands

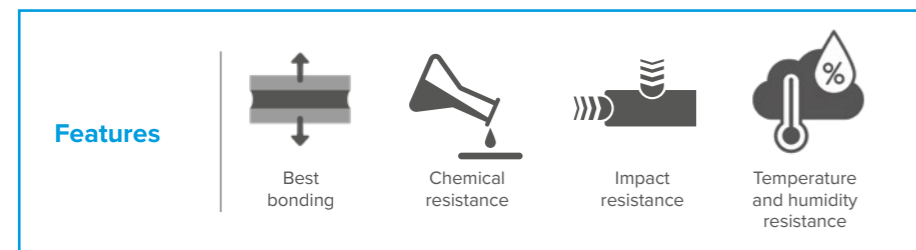
tesa® structural bonding solutions provide high structural bonding performance to a wide variety of substrates. They withstand the harshest conditions by combining outstanding chemical and aging resistance. The processing of these adhesive systems is simplified due to excellent die cuttability, immediate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

### Heat-activated films

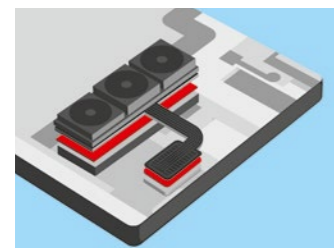
tesa® HAF and tesa® XPU are thermosetting adhesive systems. An irreversible cross-linking reaction is initiated by heat and pressure starting at temperatures above 110°C, resulting in extremely strong bonds.

### Low-temperature reactive films

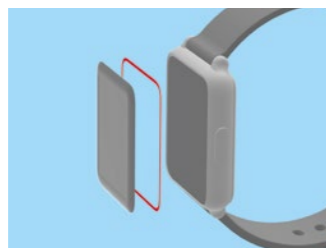
Our low-temperature reactive films tesa® LTR and tesa® LTC have been designed for activation at moderate temperatures. The cross-linking starts at a bond-line temperature above 75°C.



## Typical applications



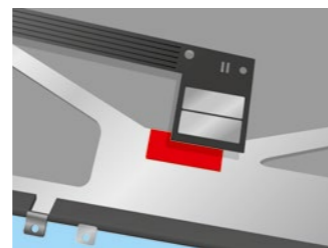
Component mounting



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	
<b>Design</b>					
<b>Color</b>	Black, amber	Black, translucent	Black, white, translucent	Black	
<b>Adhesive</b>	Nitrile rubber/phenolic resin	Cross-linkable polyurethane	Cross-linkable polyurethane	Cross-linkable polyurethane	
<b>Activation temperature [°C]</b>	>120	>110	>75	>75	
<b>Special features</b>	Temperature resistance, chemical resistance	Impact resistance, low bonding pressure	Impact resistance, wettability on fabrics	Impact resistance, chemical resistance	
<b>Thickness</b>	10 µm	● 58469			
	20 µm	● 58477			
	25 µm		● 58701 ○ 8701		
	30 µm	● 58471 ○ 8471 ● 58470		○ 8711	
	50 µm		● 58702 ○ 8702	● 58460 ○ 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		
<b>Product performance</b>	<b>Reference product</b>	● 58474	● 58704	● 58484	● 58664
	<b>Reference substrate</b>	SUS/SUS	AL/PC	PC/PC	AL/AL
	<b>Push-out [MPa]</b>	>5.5	>4.0	>5.5	>4.0
	<b>DuPont [J; xy/z]</b>	>0.5	>3.5	>4.0	>1.0
	<b>Reliability*</b>	●●●●	●●●	●●●	●●●●
<b>Chemical resistance*</b>	●●●●	●●	●●	●●●	

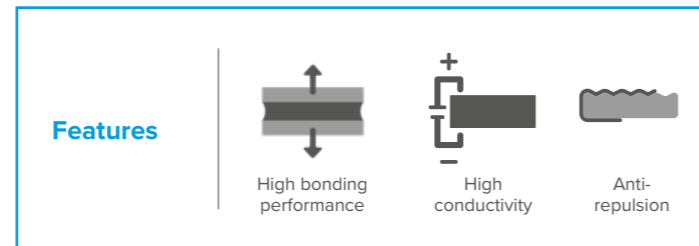
\* Assessment is done only in relation to other products of this assortment

● Amber ○ Translucent ○ White ● Black

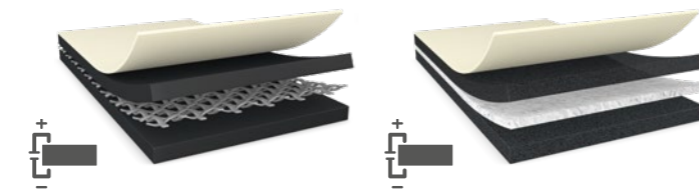
# Double-sided electrically conductive tapes

## For applications requiring grounding

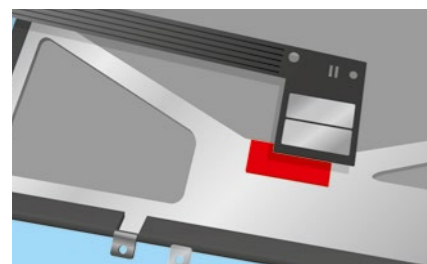
By offering a broad assortment of filled acrylic adhesive systems, with a balance between electrical conductivity and adhesive properties, we are able to provide the best solution for your requirements. Simply decide what is the most important for your application: bonding performance, conductivity,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



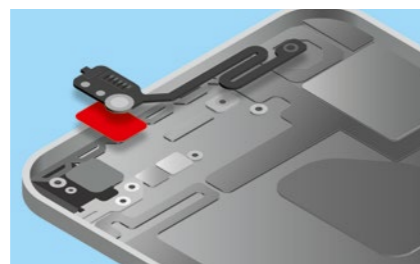
Our double-sided tapes are available with two different backings. The woven backing offers a higher tear resistance, very good dimensional stability, and better reworkability, while the nonwoven backing provides faster wetting, excellent conformability, and very good die cuttability.



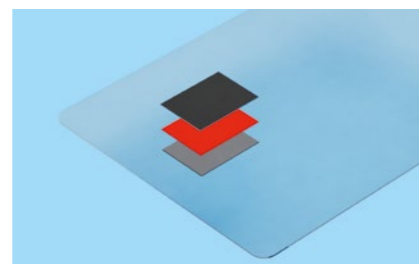
## Typical applications



FPC grounding



FPC on SUS



Component grounding

## Assortment overview

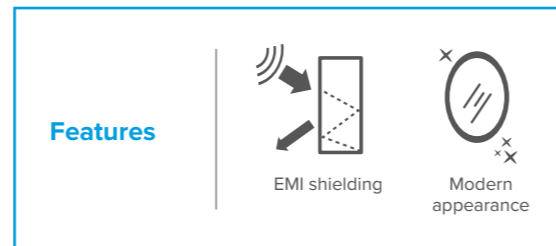
	tesa® 6025x/6026x	tesa® 6036x	tesa® 6037x	tesa® 6038x	tesa® EC HAF 5845x	
<b>Design</b>						
<b>Color</b>	Gray	Gray	Black	Gray	Black	
<b>Adhesive</b>	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive structural adhesive	
<b>Backing</b>	Woven, nonwoven	Woven	Woven, nonwoven	Woven, nonwoven	-	
<b>Special features</b>	Balanced properties	High bonding strength, high conductivity	Best conductivity	Best bonding strength, repulsion resistance	Heat-activated structural bonding film, temperature and humidity resistance	
<b>Thickness</b>	17 µm	● 60267				
	25 µm	● 60261				
	30 µm			● 60371		
	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					
<b>Reference product</b>	● 60252 ● 60262	● 60362	● 60372	● 60381 ● 60382	● 58452	
<b>Product performance</b>	<b>Peel adhesion [N/cm; initial/ultimate] SUS</b>	5.4/8.3	7.0/8.0	4.3/5.6	8.0/10.0	n.a.
	<b>Dynamic shear [N]</b>	n.a.	n.a.	n.a.	n.a.	>7
	<b>Contact resistance [mΩ.inch²]</b>	0.05	0.01	0.01	0.06	0.05
	<b>Surface resistance [mΩ.sq]</b>	0.2	0.1	0.1	0.3	0.5
	<b>Shielding effectiveness [-dB]</b>	>50	>60	>50	>50	~40

● Black ● Gray

# Single-sided electrically conductive tapes

## For shielding and covering applications

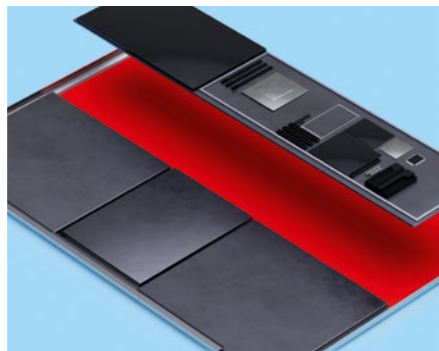
Covering and shielding applications are broad and have different requirements for conductivity, adhesion, and design. Our single-sided ECT assortment meets the latest requirements for shielding and appearance.



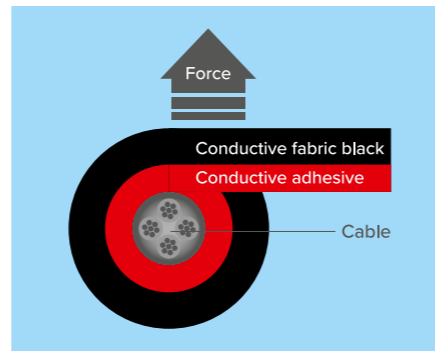
## Typical applications



MLB covering



MLB shielding



Wire wrapping

## Assortment overview

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




# Single-sided electrically conductive foam tapes

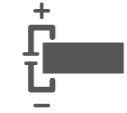
## For conductive gap filling

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

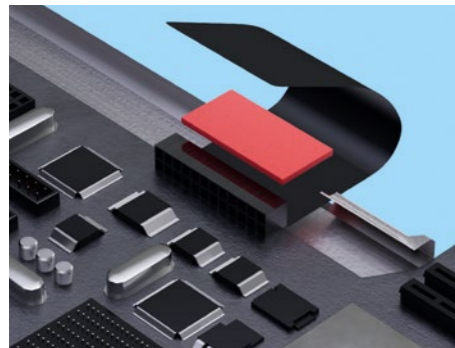


Electrical conductivity

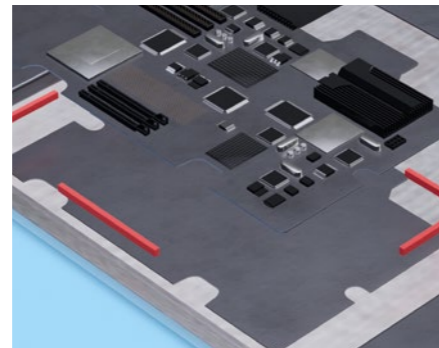


Compressibility

## Typical applications



FPC grounding



MLB grounding

## Assortment overview

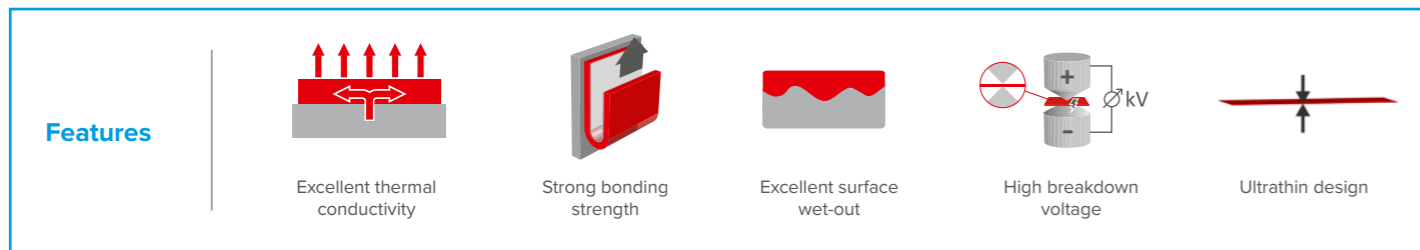
	tesa® 6021x	tesa® 6068x	tesa® 6024x	
<b>Design</b>				
<b>Color</b>	Gray	Gray	Gray	
<b>Adhesive</b>	Conductive acrylic	Conductive acrylic	Conductive acrylic	
<b>Backing</b>	Soft foam	Ultrasoft foam	Gasket foam	
<b>Special features</b>	Excellent electrical conductivity	Excellent compressibility	Abrasion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

● Gray

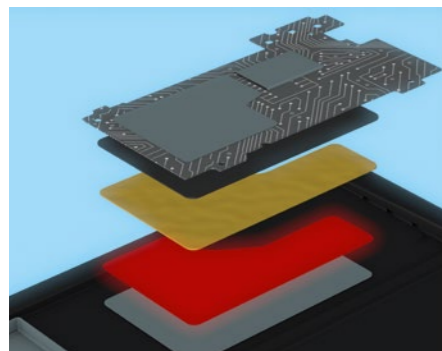
# Thermal management tapes

## Keeping electronic devices cool

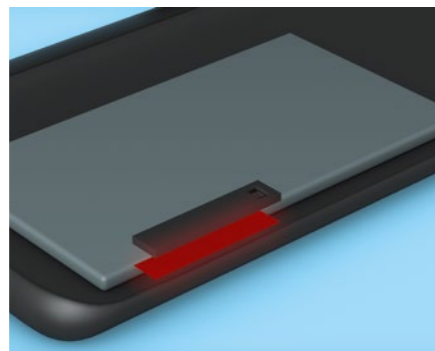
tesa® TMT 6074X provides superior thermal transfer performance with excellent bonding properties. It delivers very good surface wet-out on substrates due to the transfer tape design which helps to maximize the thermal transfer efficiency in electronic devices. The available thickness range starting from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



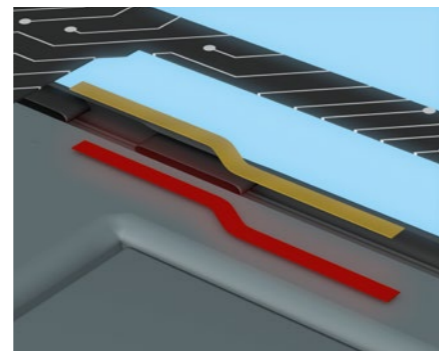
## Typical applications



Vapor chamber mounting



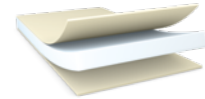
5G-antenna mounting



Heat pipe mounting

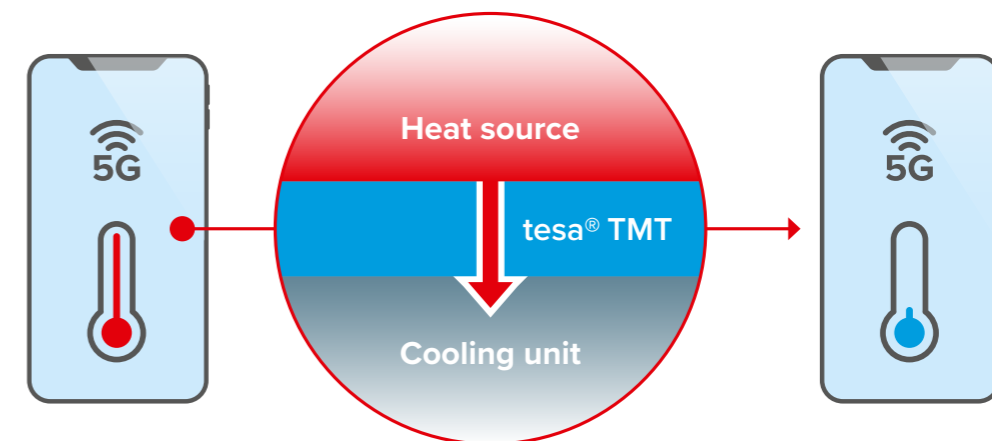
## Assortment overview

tesa® 6074x

Design		
Color	White	
Backing	-	
Thickness	10 µm	o 60742
	30 µm	o 60743
	50 µm	o 60744
	100 µm	o 60745
Reference product	o 60744	
Product performance	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

o White

## Cooling scenario







# Covering tapes

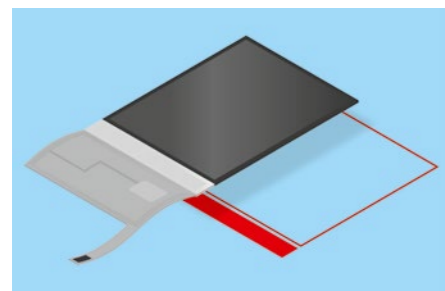
## More functionality for electronic devices

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

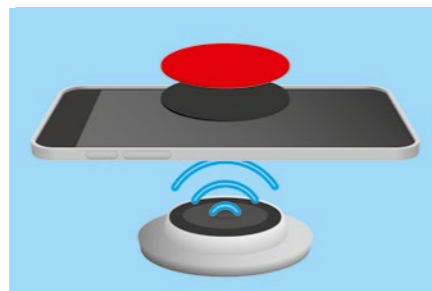
**Features**

- Anti-repulsion
- Light blocking
- High bonding
- Modern appearance

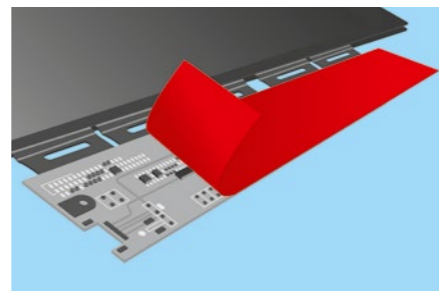
## Typical applications



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	
<b>Design</b>					
<b>Color</b>	Matte black	Natural black	Matte black	Amber	
<b>Adhesive</b>	Black tackified acrylic	Black tackified acrylic	Tackified acrylic	Tackified acrylic	
<b>Backing</b>	PET	PET	PI	PI	
<b>Special features</b>	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	
<b>Thickness</b>	5 µm	● 7905			
	8 µm	● 7908			
	10 µm	● 7910			
	20 µm	● 7920			
	30 µm	● 7930			
	50 µm	● 7950	● 7250	● 67350	● 66350
	60 µm		● 7160		
	80 µm		● 7180		
	100 µm		● 7100		
	<b>Reference product</b>	● 7950	● 7250	● 67350	● 66350
<b>Product performance</b>	<b>Peel adhesion [N/cm; initial/ultimate]</b>	SUS 4.0	4.2	3.5	4.0
	<b>Light blocking [optical density]</b>	5.7	>6	2.6	n.a.
	<b>Insulation [kV, dielectric breakdown voltage]</b>	5.5	5.0	3.6	3.6
	<b>Anti-repulsion*</b>	●●●●	Upon request	●●●●	●●●●

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

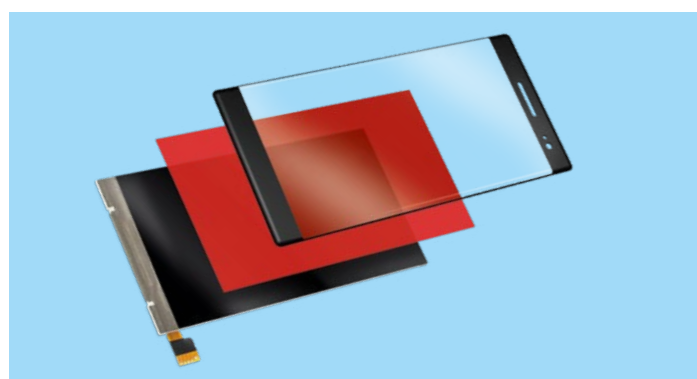
● Amber ● Matte/Natural black

# Display tapes

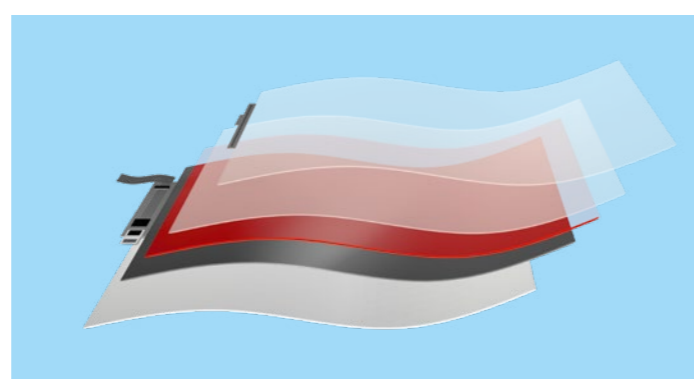
## Optically clear design with special features

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

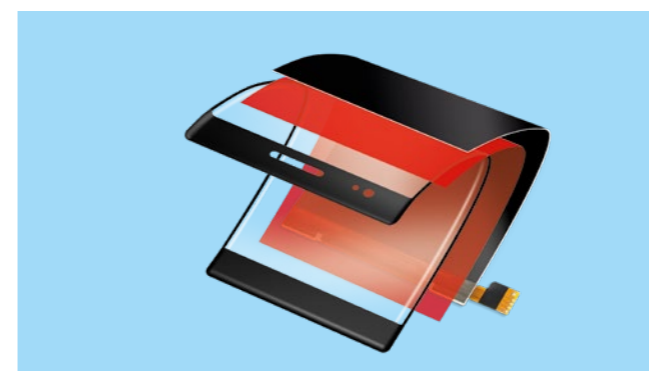


Touch panel lamination

## New OCA developments

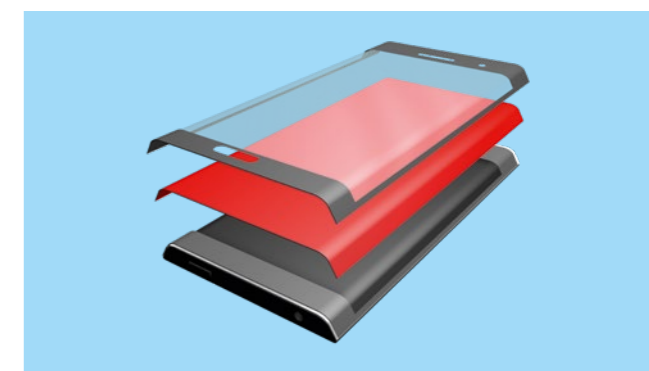
In addition to our active assortment, we are developing new materials to support handheld devices with **foldable and curved-edge displays**, as well as backside **cushioning tape**. Furthermore, we are developing new **OCA tapes for the automotive industry**.

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

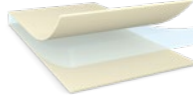
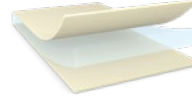
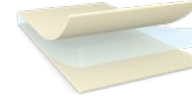
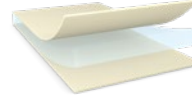



### Curved display

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		
<b>Design</b>							
<b>Color</b>	Transparent	Transparent	Transparent	Transparent	Beige		
<b>Type</b>	UV-curable	UV-curable	PSA	PSA	PSA		
<b>Special features</b>	Outgassing resistant	Excellent gap filling	Lamination of films	Low dK, low WVTR	Moisture blocking		
<b>Thickness*</b>	25 µm		○ 69401	○ 61562	● 61531		
	50 µm	○ 69802		○ 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				
<b>Reference product</b>	○ 69804	○ 69604	○ 69404	○ 61563*	● 61533*		
<b>Product performance</b>	<b>Peel adhesion [N/cm; ultimate]</b>	<b>Glass</b>	10.2	11.1	6.9	5.0	6.5
		<b>PET</b>	7.6	7.9	4.8	3.3	6.0
		<b>PC</b>	9.8	10.0	7.0	4.7	6.8
	<b>Transmission [%]</b>	>99	>99	>99	>99	n.a.	
	<b>Haze [%]</b>	<0.5	<0.5	<0.5	<0.5	n.a.	
	<b>Refractive index</b>	1.48	1.48	1.48	1.52	1.52	
	<b>Gap filling [%]</b>	30	25	10	<10	<10	
	<b>Dielectric constant<sup>1</sup></b>	4.7	4.5	4.9	2.56	2.92	
	<b>G' [kPa]<sup>2</sup></b>	250	130	107	550	Upon request	
	<b>WVTR<sup>3</sup> [g/m<sup>2</sup>·day]</b>	n.a.	n.a.	n.a.	0.9	0.4 <sup>5</sup>	
<b>Lag time<sup>4</sup> [h]</b>	n.a.	n.a.	n.a.	25	10,000		

\* Further thicknesses might be available upon request.

○ Transparent ● Beige

<sup>1</sup>100 kHz

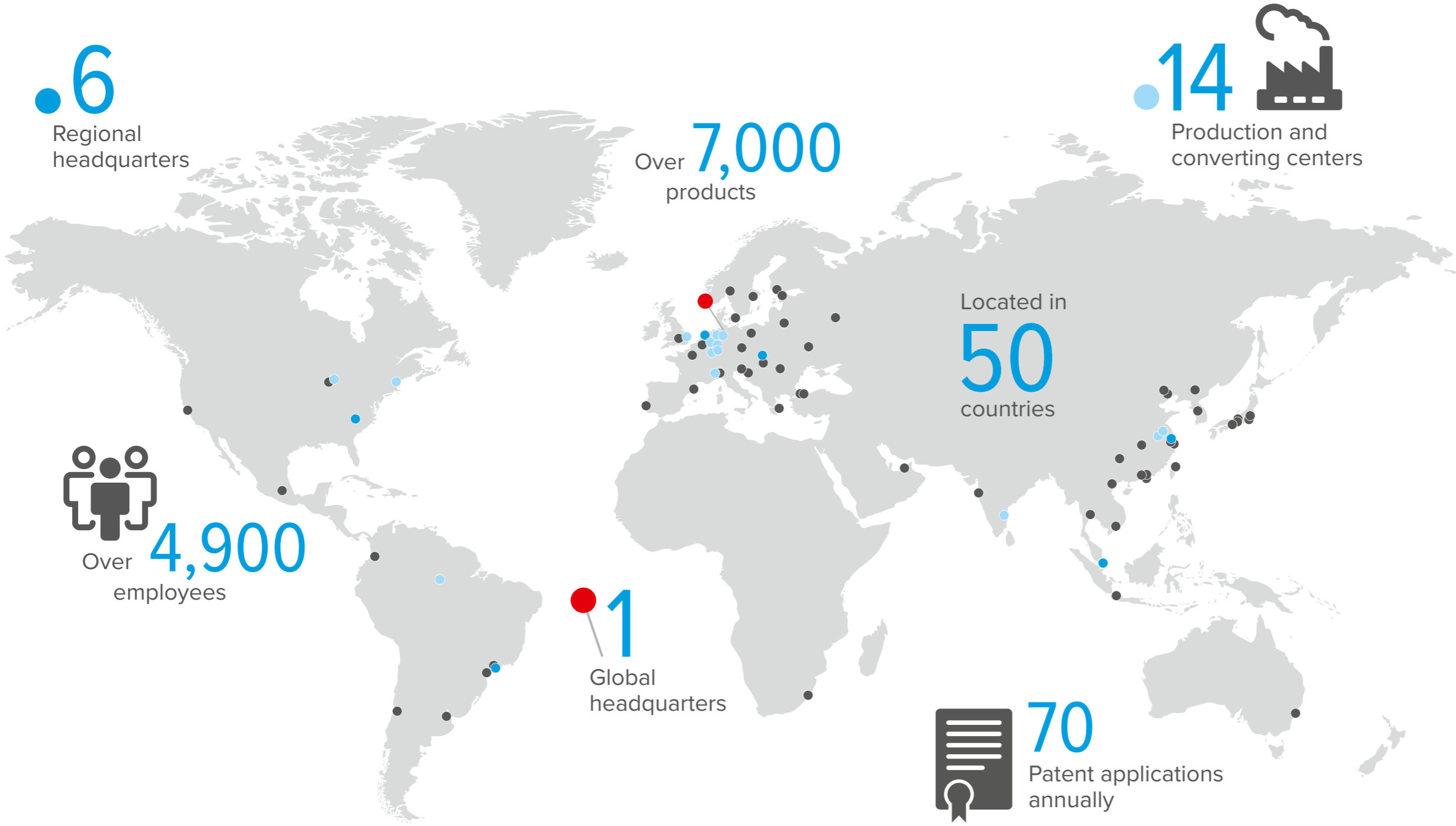
<sup>2</sup>25°C, 1 Hz

<sup>3</sup>38°C, 90% rel. humidity, 1 mm

<sup>4</sup>60°C, 90% rel. humidity, 6.5 mm gap

<sup>5</sup>WVTR after all getter is used up

# Global presence



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