

Agenda

About Us

Your Complete Automotive Converting Partner

- Pressure sensitive adhesive basics •
- Surface tension ٠

1. Double-Sided Tape – Automotive

- Filmic and Non-woven Tapes
- Foam Tape •
- Acrylic-Foam Tape ENEW S
- Structural Tape •
- LSE Tape
- Flame-Retardant Tape •



{NEW}

ENEW

2. Functional Tape – Automotive/Electronics

- Electrically Conductive Tape •
- Thermally Conductive Tape

3. Optically Clear Adhesives

- **Display Lamination Films** •
- Display Mounting Tape

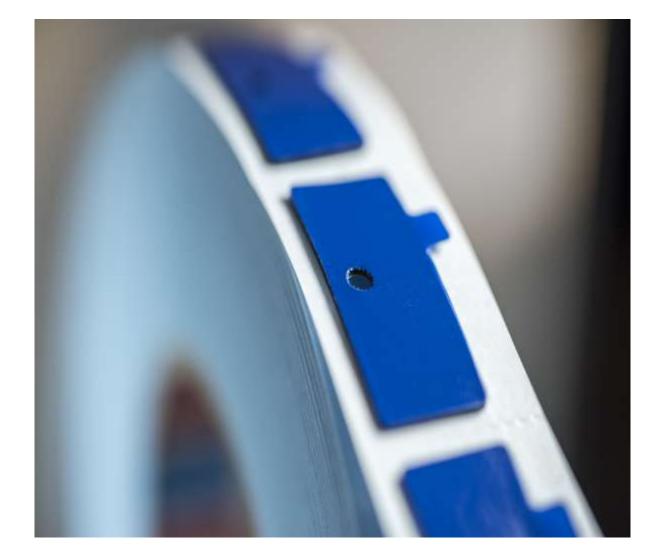
4. E-Mobility Solutions

- Electrical Insulation Tape
- Cell and Pack Mounting

5. Single-Sided Tape – Automotive

- Permanent Protection Tape •
- Masking Tape •
- Multipurpose Tape •
- Buzz Squeak and Rattle Prevention • **ENEW**





Company Presentation



ABOUT US



Qualified Experience and Individual Support

As a leading global manufacturer of adhesive solutions for the automotive industry, we offer a wide range of specially developed adhesive tape for trends like car customization, e-mobility or low-VOC products. We are continuously developing new products enabling you to accelerate in this fast moving business and offer the latest innovations to your customers. We put you and your suppliers first by giving you the individual attention and service you deserve. Our numerous sales offices, our research and development departments, and our production facilities offer worldwide assistance wherever our customers are located. At our Application Solution Centers, our technical experts evaluate your specific application needs. Our state-of-the-art equipment allows us to conduct the latest critical tests in order to find the adhesive tape that perfectly matches your individual needs.

BY YOUR SIDE

We are one of the leading global manufacturers of selfadhesive tape. Our product solutions prove their performance in countless industrial sectors around the globe. The nearest office is just a call away – contact us.



Your Contact:

Thomas Niemeyer Head of Global Business Development Phone: +49 40 88899 7274 E-mail: Thomas.Niemeyer@tesa.com

tesa Converter Offers



YOUR COMPLETE AUTOMOTIVE CONVERTING PARTNER



Our Offering

Because of our vast experience and our excellent adhesive technology, we are experts in adhesive tape solutions for the electronics industry. With our reliable solutions and exceptional service, we support you during the entire product development process to find the best tape solution for your requirements.



Individual Support

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

Contact Us

Our local experts and engineers will 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

tesa CONVERTER OFFERS Solutions That Go Beyond Tape

Our top converting partners get unlimited access to our application and material tests centers around the world. Furthermore, our automotive application engineers, key account managers, and product developers support our converting partners with product and part testing and application training, fast sample processes, and joint end-customer on-site plant and design center visits.

Our technical experts from the tesa production network and quality management department offer consulting to improve converting production processes and IATF 16949 implementation.

Features of Our Tape



tesa Converter Offers



FROM SKETCH TO REALITY YOUR COMPLETE AUTOMOTIVE CONVERTING PARTNER



Even with the most demanding requirements, we support you in finding the best possible solution. We know Converting involves a variety of processes, such as:

- Die Cutting Slitting
- Punching
- Lasering
- Printing
- Laminating Spooling

Rewinding

By combining your converting expertise with our high-quality products and expert adhesive consultancy, you can create customized products for all market needs.



Product Excellence

Expert support

Testing & Validation

Access to the broadest tesa product portfolio, including a selection of 60+ products handpicked for our Converter partners, on which we guarantee quick sampling in different formats (mini-log, A4 sheets) and minimum order quantity of one log roll on most standard orders.

Our Sales personnel and Converter Experts are there to assist you with any customer request. Technical experts at tesa Customer Solution Center also offer on-site and remote support and evaluation

Our local experts and engineers will support you on-site and

Quick bonding

Simulations under a wide range of environmental conditions

of your individual application under laboratory conditions.

remotely, resorting to state-of-the-art equipment to perform:

Comparative tests with competitor products



Anti-repulsion

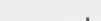
Customized tests with customer substrates







High bonding Impact resistance





LSE

LSE performance

Balanced properties

Good die-cutting

... and many more

Chemical resistance

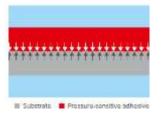
SOLUTIONS FOR CUSTOMIZED APPLICATIONS

PSA Basics



PRESSURE SENSITIVE ADHESIVE BASICS

An interplay between adhesion and cohesion



Adhesion

Adhesion refers to the sum of all forces which occur at the interfaces between two substrates, e.g. a surface to be bonded and a pressuresensitive adhesive. The measurable bond strength of adhesion results from the combination of these physical interactions and the energy dissipation from the pressure-sensitive adhesive's viscoelastic properties.

Cohesion

For the adhesive bond to stay intact, sufficient cohesion (internal strength) of the pressure-sensitive adhesive is required. The cohesion of a pressure-sensitive adhesive describes the elastic behaviour of the adhesive, which in turn has an impact on the shear strength or restoring forces of a bond.

🖩 Substrato 📕 Pressure-sensitive adhesive



Adhesive strength

Adhesive strength is described by the interplay of adhesion and cohesion, i.e. only through a certain combination of adhesion and internal strength is an adhesive bond able to withstand the stresses that act on it.

A particular form of adhesion is the **tack**, which determines whether an adhesive mass can quickly wet a surface with which it comes into contact with virtually no pressure. But the tack does not ultimately correlate with the actual bond strength of a pressure-sensitive adhesive. Pressure-sensitive adhesives with a low tack are capable of withstanding high stresses when high final adhesive strength and/or high shear strength are formed.

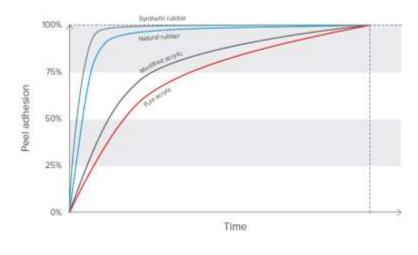
Therefore, the thumb test (or even finger tack) is not suitable for drawing conclusions about the bond strength of a pressure-sensitive adhesive.

SOLUTIONS FOR CUSTOMIZED APPLICATIONS

PSA Basics



Initial and ultimate peel adhesion

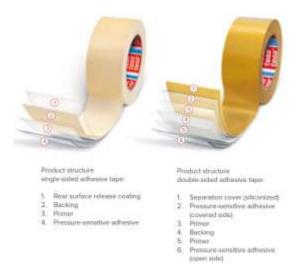


Due to the viscoelastic character of an adhesive tape the peel adhesion increases over time. The time needed to achieve the ultimate peel adhesion strongly depends on factors such as the type of adhesive mass, temperature, contact substrate. pressure and This behavior is described as the initial and ultimate peel adhesion.

As the chart shows, both synthetic and natural rubber pressure-sensitive adhesives require less time to reach the ultimate peel adhesion than acrylic-based pressure-sensitive adhesives. As a rule of thumb, it takes 72 hours to achieve the ultimate peel adhesion of acrylic adhesives. With the use of a bonding agent (adhesion promoter) the time needed to achieve the ultimate peel adhesion is typically reduced.

Higher temperatures also significantly reduce the time needed to achieve the ultimate peel adhesion. At lower processing temperatures, a much longer time is once again required to achieve the ultimate peel adhesion.

Adhesive tape structure



All adhesive tapes consist essentially of a backing material and at least one self-adhesive layer of adhesive. The product structures shown on the right are typical for single-sided and double-sided adhesive tapes.

The adhesive and backing materials are adapted to the specific application requirements of each tesa® adhesive tape solution. Examples of adhesive masses are acrylics, natural rubber and synthetic rubber.

Examples of backings are film, paper, tissue and foam. In order to help you choose the appropriate adhesive tape, we offer product ranges for the various fields of application. These include, for example, adhesive tapes for surface protection, masking, bundling and permanent bonding in the automotive, electronics, construction or furniture industries.

SOLUTIONS FOR CUSTOMIZED APPLICATIONS PSA Basics



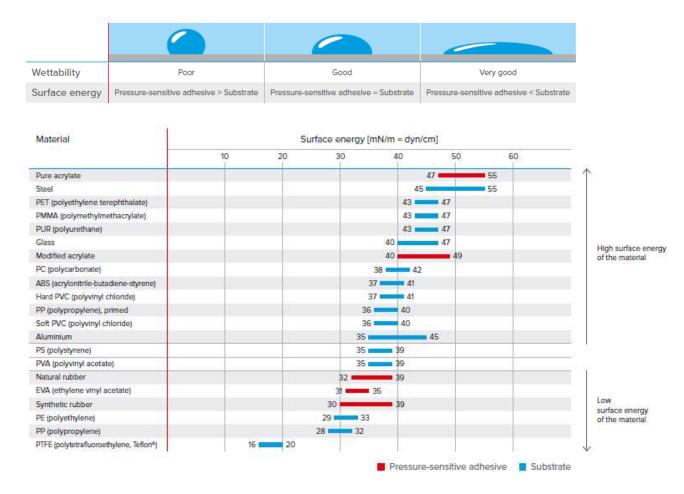
Surface tension

In order to achieve sufficient contact points for the formation of high adhesion forces, the pressure-sensitive adhesive must be able to sufficiently wet the substrate to be bonded. Wetting largely depends on the surface tension or energy of the substrate and the pressure-sensitive adhesive.

A pressure-sensitive adhesive is generally able to wet-out a substrate if the substrate's surface energy is greater than or equal to that of the adhesive. The higher the wet-out, the more contact points are available to form a bond between two surfaces. As a first indication one can use a water droplet to differentiate between high and low surface energy substrates. If the droplet forms a film, this points to a high surface energy. On the other hand, if it stays a droplet or drips off, it points to a lower surface energy than water. In this case, bonding to the substrate may be difficult.

More accurate results are achieved with so-called test inks, which are also available in pen form. The surface energy is given in mN/m, dyn/cm or sometimes also in mJ/m², whereby: 1 mN/m = 1 dyn/cm.

The boundary between low-energy and high-energy surfaces is usually drawn in the range of a surface energy of 36 - 38 mN/m. Therefore, the bondability for surface tensions above this range is usually problem-free, whereas at values below this range a pretreatment of the surface to be bonded should be considered.



AUTOMOTIVE TAPE FOR LAMINATION

Double-Sided Adhesive Tape: Scrim, Transfer, Non-woven, and Filmic

Back



Main Application

- Thin double-sided adhesive tape for fast and efficient converting processes
- · Transfer, non-woven, and filmic double-sided tape for foam, felt, and fleece laminations

Assortment Properties

- The different technology blocks from water- and solvent-born adhesives in thicknesses from 50 µm to 220 µm - offer a wide-ranging level of performance and design to cost options
- Our double-sided adhesives for lamination and converting applications offer very Low VOC emissions judged as Ultra Low VOC and Low VOC
- Broad portfolio including special solutions for demanding loads in the applications



Main Product Features





High bonding



Anti-repulsion





Temperature

resistant





Good die-cutting





Quick bonding



Chemical resistance

Qualified according.to Low and Ultra Low VOC automotive conditions

Best Seller

tesa® 52105

- Efficient solution for lamination
- Good wet out on all substrates
- Ultra Low VOC

tesa® 66022

- Suitable for LSE substrates
- Strong repulsion resistance

-9-

Ultra Low VOC

tesa® 51970

- Strong performance on rough substrates and textiles
- Strong repulsion resistance
- Low VOC

tesa[®] 4965

- Strong all-round solution
- High shear resistance
- Low VOC

Low Odor

AUTOMOTIVE TAPE FOR LAMINATION

Double-Sided Adhesive Tape: Scrim, Transfer



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion to steel initial /three days [N/cm]	Temperature resistance short/long term [°C]	Low emission	Description/special features
tesa® <u>75007</u>	75	Transparent	Glassine Brown / Blue logo	1,372	Acrylic	Scrim	7.3/8.6	170/-	LOW VOC	Tape with high conformability and repulsion and humidity resistance
tesa [®] <u>66007</u>	75	Transparent	Glassine Brown / Blue logo	1,150	Acrylic	Scrim	9.7/12.3	170/-		Tape with high conformability and strong initial performance even on LSE substrates
tesa [®] <u>66013</u>	130	Transparent	Glassine Brown / Blue logo	1,150	Acrylic	Scrim	15.4/16.5	180/-		Tape with high conformability and strong initial performance even on LSE substrates
tesa [®] <u>66022</u>	220	Transparent	Glassine Brown / Blue logo	1,150	Acrylic	Scrim	12.3/17.3	200/-		Tape with high conformability and gap-filling properties as well as strong initial performance even on LSE substrates
tesa [®] <u>52105</u>	50	Transparent	Glassine Yellow	1,480	Acrylic	None	9.2/9.5	170/-	ELOW	Lamination adhesive suitable for all substrates
tesa [®] <u>52110</u>	100	Transparent	Glassine Yellow	1,480	Acrylic	None	13/13	180/-		Lamination adhesive suitable for all substrates
tesa® <u>4985</u>	50	Transparent	Glassine Brown	1,270	Acrylic	None	8/11.1 (14 days)	200/80		Temperature-resistant tape with high adhesion to uneven surfaces
tesa® <u>75505</u>	50	Transparent	Glassine Brown	1,372	Acrylic	None	8 (steel initial)	200/100	LOW VOC	Tape with excellent conformability and very good initial adhesion to a variety of substrates
tesa [®] <u>75507</u>	75	Transparent	Glassine Brown	1,372	Acrylic	None	11 (steel initial)	200/100	LOW VOC	Tape with excellent conformability and very good initial adhesion to a variety of substrates
tesa [®] <u>75515</u>	125	Transparent	Glassine Brown	1,372	Acrylic	None	12 (steel initial)	200/100	LOW VOC	Tape with excellent conformability and very good initial adhesion to a variety of substrates

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa® products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE TAPES FOR LAMINATION

Double-sided Adhesive Tapes: Cloth, Nonwoven and Filmic



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion to steel (initial/14 days) [N/cm]	Temperature resistance short/long term [°C]	Low emission	Description/special features
tesa [®] <u>4934</u>	200	Transparent	Glassine White	1,400	Rubber	Cloth	14.5/24 (14 days)	60/40		High-tack tape with high initial adhesion suitable for rough surfaces
tesa [®] <u>4959</u>	100	Translucent	Multiple	1,372	Acrylic	Non-woven	8/8.5	200/80	LOW	Tape with high resistant properties against different ambient influences
tesa [®] <u>4962</u>	160	Translucent	Brown glassine	1,362 1,372	Acrylic	Non-woven	11.5/12 (14 days)	200/80	LOW	Tape with high adhesion to different substrates
tesa [®] <u>52210</u>	100	Translucent	Glassine Brown	1,000 1,480 1,500	Acrylic	Non-woven	6/11.5	170/-	ELOW	Tape with high conformability to follow 3D shapes
tesa [®] <u>52215</u>	150	Translucent	Glassine Brown	1,000 1,500	Acrylic	Non-woven	6/13	180/-	ELOW VOC	Tape with high conformability to follow 3D shapes
tesa [®] <u>51570</u>	110	Translucent	Glassine Brown	1,400	Rubber	Non-woven	12/13	80/40		High initial bonding tape for LSE substrates and uneven surfaces
tesa® <u>51571</u>	160	Translucent	Glassine Brown	1,400	Rubber	Non-woven	12.5/13	80/40		High initial bonding tape for LSE substrates and uneven surfaces
tesa [®] <u>4942</u>	140	Transparent	Glassine Brown	1,372	Acrylic	PET	10.3/12.7	200/100	LOW	High bonding strength and shear resistance
tesa® <u>4965</u>	205	Transparent	Multiple	1,372	Acrylic	PET	11.5/11.8	200/100	LOW	Extremely well balanced all-round tape with excellent humidity and ageing resistance
tesa [®] <u>4970</u>	225	White	Glassine Brown	1,372	Acrylic	PET	13/13.6	70/60		Tape with excellent adhesion and plasticizer resistance
tesa [®] <u>4972</u>	48	Transparent	Glassine Brown / Blue	1,250	Acrylic	PET	7/9.6	200/100		Excellent resistance to demanding environmental conditions and handling performance when converting
tesa [®] <u>51966</u>	200	Transparent	Glassine Brown / Blue	1,372	Acrylic	PETP	10.5/11	130/80		Excellent converting properties, fully suitable for long-term applications
tesa [®] <u>64993</u>	240	White	PE-coated paper White	1,372	Acrylic	PP	12/12.5	120/-		Superior wet-out performance, excellent gap-filling
tesa [®] <u>51970</u>	220	Transparent	Glassine Brown	1,372	Acrylic	PP	13/13.5	130/80		Secure bond even on critical materials such as PP and PE and rough surfaces
tesa [®] <u>61395</u>	200	Black	Glassine White with logo	1240	Acrylic	PET	14.3/17	200/100		High shock resistance and very high bonding strength

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE FOAM TAPE FOR PERMANENT MOUNTING

Back



Double-Sided Adhesive Tape: Foam

Main Application

- Globally OEM approved for applications such as for automobiles
 - Exterior emblems, PDC holder, and entry trims
 - Exterior and interior mirror mounting
 - Interior plastic trims and instrument clusters
 - Locator pin mounting on glass
- Suitable if sealing, shock resistance, gap-filling, and dampening is required **Assortment Properties**
- · Widely used and utilized because of the conformable closed-cell design for several applications

Main Product Features





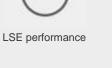


High bonding





Conformable





Impact resistance Compressible

Reliable



Approved and in use

Good wetting



Best Seller

{**[**]

Chemical resistance

tesa® 649xx Primerless

- For medium- and low-surfaceenergy plastics and clear coats
- Primerless application
- High initial tack even at low temperatures

tesa® 625xx

- Excellent wet-out and superior conformability
- Good for gap-filling and sealing
- High foam compression rate

tesa® 6285x High Temperature

- · For medium- and high-surfaceenergy plastics and clear coats
- High temperature resistance
- High peel adhesion

tesa® 6290x

- High initial and ultimate adhesion
- Excellent cold-shock performance
- High temperature resistance

AUTOMOTIVE FOAM TAPE FOR PERMANENT MOUNTING

Double-Sided Adhesive Tape: Foam

tesa

Product	Thickness [µm]	Color	Standard log roll width [mm]	Type of adhesive	Backing	Special features	Description
tesa® <u>64905</u> tesa® <u>64908</u> tesa® <u>64912</u>	500 800 1,200	Black	1,240	LSE adhesive	PE foam	High initial adhesion to LSE and MSE surfaces, ultimate peel adhesion level right after application even at low temperatures, excellent cushioning	Primerless grade for mounting smaller exterior and interior decorative trims, like emblems and lettering like single letters for classification of car models or engine data
tesa [®] <u>62852</u>	500	Black	1,240	Pure acrylic	PE foam	High ultimate adhesive strength, very good peel adhesion, superior pushout performance, excellent cushioning	High-temperature-performance grade for mounting exterior parts, emblems, nameplates and lettering like single letters for classification of car models or engine data, especially if they have filigree designs or a locator pin on windscreens
tesa [®] <u>62708</u>	800	Black	1,240	Pure acrylic	PE foam	High ultimate adhesive strength, excellent cushioning, excellent cold-shock performance	High-temperature-performance grade for mounting smaller emblems, lettering, or nameplates
tesa [®] <u>62904</u> tesa [®] <u>62906</u>	400 600	Black	1,240	Tackified acrylic	PE foam	High initial and ultimate adhesive strength, excellent cold-shock performance, excellent temperature resistance and cushioning	High-initial-performance grade for mounting exterior and interior trims and mirrors on backplates
tesa [®] <u>62932</u> tesa [®] <u>62934</u> tesa [®] <u>62935</u> tesa [®] <u>62936</u>	500 800 1,000 1,600	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, immediate adhesion to numerous substrates, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, good initial tack and very good cold-shock absorption	High-initial-performance grade for mounting exterior and interior parts like plastic trims and decorative trims
tesa [®] <u>62516</u> tesa [®] <u>62520</u> tesa [®] 62530	1,600 2,000 3.000	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, high foam compression rate	General-purpose grade for general mounting, mounting exterior and interior trims, and mounting exterior mirrors with or without a heating element onto the baseplate
tesa® <u>62505</u>	500	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, high foam compression rate	General-purpose grade for general mounting, mounting exterior and interior trims, and mounting exterior mirrors with or without a heating element onto the baseplate
tesa [®] <u>62508</u>	800	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, high foam compression rate	General-purpose grade for general mounting, mounting exterior and interior trims, and mounting exterior mirrors with or without a heating element onto the baseplate
tesa® <u>62510</u>	1,000	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, high foam compression rate	General-purpose grade for general mounting, mounting exterior and interior trims, and mounting exterior mirrors with or without a heating element onto the baseplate
tesa [®] <u>66108</u>	800	Black	1,250	Tackified acrylic	PE foam	High initial adhesive strength, excellent cold-shock resistance Superior wet-out performance	General-purpose grade for mounting exterior mirrors with or without a heating element onto the baseplate
tesa® <u>62512</u>	1,200	Black/White	1,360	Tackified acrylic	PE foam	High ultimate adhesion strength, suitable for outdoor applications, UV, water, and ageing resistant, excellent cushioning, high foam compression rate	General-purpose grade for mounting exterior mirrors with or without a heating element onto the baseplate

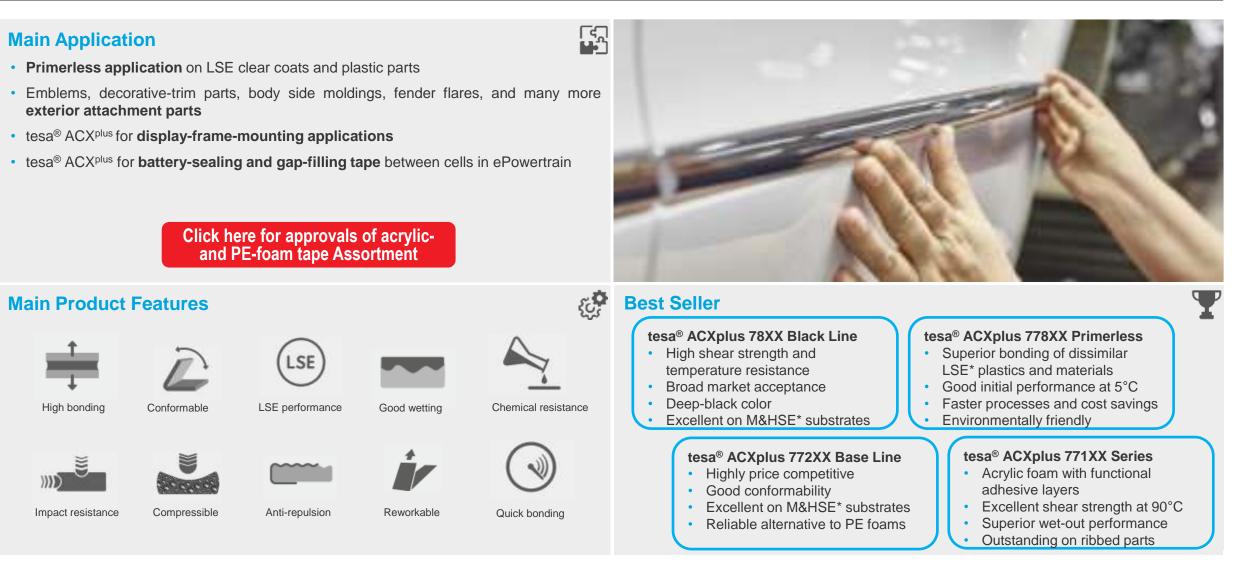
1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa® products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE TAPE FOR ULTIMATE BONDING

Double-Sided Adhesive Tape: Acrylic Foam







AUTOMOTIVE TAPE FOR ULTIMATE BONDING

Double-Sided Adhesive Tape: Acrylic Foam



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion to Steel (three days) [N/cm]	Temperature resistance [°C]	Description/special features
tesa [®] ACX ^{plus} 7805	500	Deep Black	White/Blue	1,260	Modified acrylic	Acrylic foam	18	Unspecified	Cold shock resistance, compensation for different thermal elongation of bonded parts
tesa [®] ACX ^{plus} 7808	800	Deep Black	White/Blue	1,260	Modified acrylic	Acrylic foam	26	Unspecified	Excellent cold shock performance, color for enhanced appearance and design flexibility
tesa [®] ACX ^{plus} 7811	1,100	Deep Black	White/Blue	1,260	Modified acrylic	Acrylic foam	32	Unspecified	Excellent cold shock performance, color for enhanced appearance and design fle xibility
tesa [®] ACX ^{plus} 7812	1,200	Deep Black	White/Blue	1,260	Modified acrylic	Acrylic foam	32	Unspecified	Excellent cold shock performance, color for enhanced appearance and design fle xibility
tesa [®] ACX ^{plus} 7815	1,500	Deep Black	White/Blue	1,260	Modified acrylic	Acrylic foam	35	Unspecified	Excellent cold shock performance, color for enhanced appearance and design fle xibility
tesa [®] ACX ^{plus} 77108	800	Black	White/Blue	900	Tackified acrylic	Acrylic foam	29	Unspecified	Excellent shear resistance at elevated temperature
tesa [®] ACX ^{plus} 77112	1,200	Black	White/Blue	900	Tackified acrylic	Acrylic foam	30	Unspecified	Excellent shear resistance at elevated temperature
tesa [®] ACX ^{plus} 77115	1,500	Black	White/Blue	900	Tackified acrylic	Acrylic foam	34	Unspecified	Excellent shear resistance at elevated temperature
tesa [®] ACX ^{plus} 77608	800	Gray	Blue	900	Tackified acrylic	Acrylic foam	25	-40/80	Superior peel-adhesion level right after application
tesa [®] ACX ^{plus} 77611	1,100	Gray	Blue	900	Tackified acrylic	Acrylic foam	26	-40/80	Superior peel- adhesion level right after application

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa® products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE TAPE FOR ULTIMATE BONDING

Double-Sided Adhesive Tape: Acrylic Foam

tesa

	Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel Adhesion to Steel (three days) [N/cm]	Temperature resistance [°C]	Description/special features
	tesa [®] ACX ^{plus} 77708	800	Gray	Royal Blue	900	LSE	Acrylic foam	31	-40 to +80	Suitable for a wide range of exterior- attachment part-mounting applications
	tesa [®] ACX ^{plus} 77711	1,100	Gray	Royal Blue	900	LSE	Acrylic foam	31	-40 to +80	Suitable for a wide range of exterior- attachment part-mounting applications
	tesa [®] ACX ^{plus} <u>77808</u>	800	Gray	Royal Blue	900	LSE	Acrylic foam	31	-40 to +80	Helps to eliminate the primer in the process. Secure bond to typical automotive attachment parts made of LSE plastics without primer
	tesa [®] ACX ^{plus} 77811	1,100	Gray	Royal Blue	900	LSE	Acrylic foam	35	-40 to +80	High initial performance on LSE plastics and difficult-to-bond clear coats without primer
	tesa [®] ACX ^{plus} 77815	1,500	Gray	Royal Blue	900	LSE	Acrylic foam	39	-40 to +80	Excellent bonding stability at an application temperature as low as 5°C
	esa® ACXplus 77204	400	Gray	White PE coated paper	On demand	Pure acrylic	Acrylic foam	22	-40 to +80	Viscoelastic acrylic foam core compensates stress caused by different thermal elongation of bonded parts
Event	esa® ACXplus 77206	600	Gray	White	On Demand	Pure acrylic	Acrylic foam	24	-40 to +80	Viscoelastic acrylic foam core compensates stress caused by different thermal elongation of bonded parts
	tesa [®] ACX ^{plus} 77208	800	Gray	White	900	Pure acrylic	Acrylic foam	24	-40 to +80	Viscoelastic acrylic foam core compensates stress caused by different thermal elongation of bonded parts

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa® products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE HEAT-ACTIVATED TAPE SOLUTIONS

Double-Sided Adhesive Tape: Structural Bonding



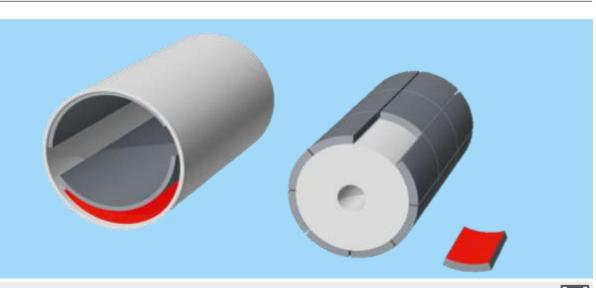


Main Application

- · For automotive applications that require high structural bonding performances and recommended for bonding metal components to various plastic or metal surfaces
- Bonding applications that need to withstand the harshest conditions:
 - FPC in auto electronics
 - Friction materials in clutches
 - Magnets in e-motors
 - · Sensors in powertrain

Assortment Properties

 tesa Heat Activated Films HAF are activated by heat and pressure to reach very high bonding strength



Main Product Features



Activation temperature

Chemical resistance





Suitable for harshest conditions



Oil resistance



Impact resistance

Good wetting

Best Seller

ونځ

tesa® 9410

- Outstanding performance
- Oil and chemical resistance
- Excellent bonding on material with uneven/rough bonding partner

tesa[®] 9430

- Outstanding performance
 - Oil and chemical resistance
- Excellent bonding on material with even and nonporous bonding partner

tesa[®] 9456

- Excellent performance at elevated temperatures and humidity
- Oil and chemical resistance
- Excellent bonding on friction-layer material

Outlook

Structural bonding solutions for lower activation temperatures on request

Temperature resistance

SPECIFIC PRODUCT ASSORTMENT

Double-Sided Adhesive Tape: Structural Bonding



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Type of adhesive	Activation temperature	Bonding strength [MPa]	Dynamic shear [N]	Description/special features
tesa [®] <u>9410</u>	60	Amber	Glassine Brown	1,020	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion and excellent chemical and oil resistance
tesa [®] <u>9430</u>	45	Amber	Glassine	1,020	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion and excellent chemical and oil resistance
tesa [®] <u>9405</u>	30	Amber	Glassine	On demand	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion and excellent chemical and oil resistance
tesa [®] <u>9402</u>	125	Amber	Glassine	On demand	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion, excellent chemical and oil resistance, and very good wetting of rough surfaces
tesa [®] <u>9401</u>	200	Amber	Glassine	1,020	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion, excellent chemical and oil resistance, and excellent wetting of rough surfaces
tesa [®] <u>9400</u>	270	Amber	Glassine	On demand	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion, excellent chemical and oil resistance, and excellent wetting of rough surfaces
tesa [®] 9456	60	Amber	PE-coated paper	1,020	Nitrile rubber/ phenolic resin	<120	<5.5	<7.0	Reactive tape with very high structural adhesion, excellent chemical and oil resistance, and reduced tackiness at moderate temperatures

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

LSE PLASTIC MOUNTING

Double-Sided Adhesive Tape: LSE





Main Application

- Thin PSA for e.g. lamination with foam, felt, non-woven, textiles, or (faux) leather to serve multiple applications on LSE substrates to offer BSR prevention, splinter protection, or mounting decorative materials
- Thick PSA for structural bonding of interior plastic parts in door panels, consoles, and instrument panels as well as exterior-attachment-part mounting

Assortment Properties

- tesa solutions for LSE substrate provide a cost-efficient, reliable, and strong bonding performance on challenging low-surface-energy substrates
- Selecting the suitable tesa product can eliminate the need for surface treatment like primer, flaming, or plasma treatment

Main Product Features





Impact resistance





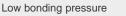
Good wetting

.SE



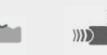
High bonding

Conformable





<u>ام</u>











Quick bonding



Best Seller

tesa® 92108

- High initial performance
- Strong ultimate bonding performance
- Suitable for bonding different substrates like PP to ABS

tesa® 66022

- Suitable for LSE substrates
- Strong repulsion resistance
- Ultra low VOC

tesa® 77808

- Superior bonding of dissimilar LSE* plastics and materials
- Good initial performance at 5°C
- Faster processes and cost savings
- Environmentally friendly

tesa® 64912

- Superior performance without primer
- Suitable for LSE and MSE paint systems

Anti-repulsion

SPECIFIC PRODUCT ASSORTMENT

Double-Sided Adhesive Tape: LSE



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion to PP [N/cm] (initial/three days)	Temperature resistance [°C]	Description/special features
tesa [®] <u>66022</u>	220	Transparent	Brown/Blue Logo	1,150	Acrylic	None	14.0/16.0	200/-	Low VOC and highly conformable to follow 3D shapes
tesa® <u>4965</u>	205	Transparent	Multiple	1,372	Acrylic	Pet	6.8/7.9 (14 days)	200/100	Immediate usability right after assembly, suitability for critical demands such as heavy stress and temperatures
tesa® <u>51970</u>	220	Transparent	Brown	1,372	Acrylic	PP	6.8/8.8 (14 days)	130/80	Good static shear resistance at 23°C and 40°C
tesa [®] <u>51570</u>	110	Translucent	Brown	1,400	Rubber	Non-woven	7.0/12.0 (14 days)	40/80	Good shear resistance at 23°C
tesa [®] <u>75507</u>	75	Transparent	Brown	1,372	Acrylic	None	11.0 (initial on steel)	100/200	Excellent static shear resistance at 70°C
tesa [®] <u>92105</u>	500	Black	Transparent	610	Performance polymer foam	None	25/30	–30°C to 100°C	Low VOC, excellent static shear resistance
tesa [®] <u>92108</u>	800	Black	Transparent	610	Performance polymer foam	None	28/36	–30°C to 100°C	Low VOC, excellent static shear resistance
tesa [®] <u>92111</u>	1100	Black	Transparent	610	Performance polymer foam	None	29/40	–30°C to 100°C	Low VOC, excellent static shear resistance
tesa [®] <u>77805</u>	500	Gray	Royal Blue	900	Acrylic foam	Acrylic foam	26/28	-40 to +80°C	High initial adhesion to LSE and MSE surfaces without primer
tesa [®] <u>77808</u>	800	Gray	Royal Blue	900	Acrylic foam	Acrylic foam	28/31	-40 to +80°C	High initial adhesion to LSE and MSE surfaces without primer
tesa [®] <u>77811</u>	1100	Gray	Royal Blue	900	Acrylic foam	Acrylic foam	32/35	-40 to +80°C	High initial adhesion to LSE and MSE surfaces without primer
tesa [®] <u>77815</u>	1500	Gray	Royal Blue	900	Acrylic foam	Acrylic foam	36/39	-40 to +80°C	High initial adhesion to LSE and MSE surfaces without primer
tesa [®] <u>64912</u>	1200	Black	Brown	1,240	Rubber	PE foam	20/20 (after 14 days)	-40°C to reliable performance to higher temperatures	High initial adhesion to LSE and MSE surfaces without primer

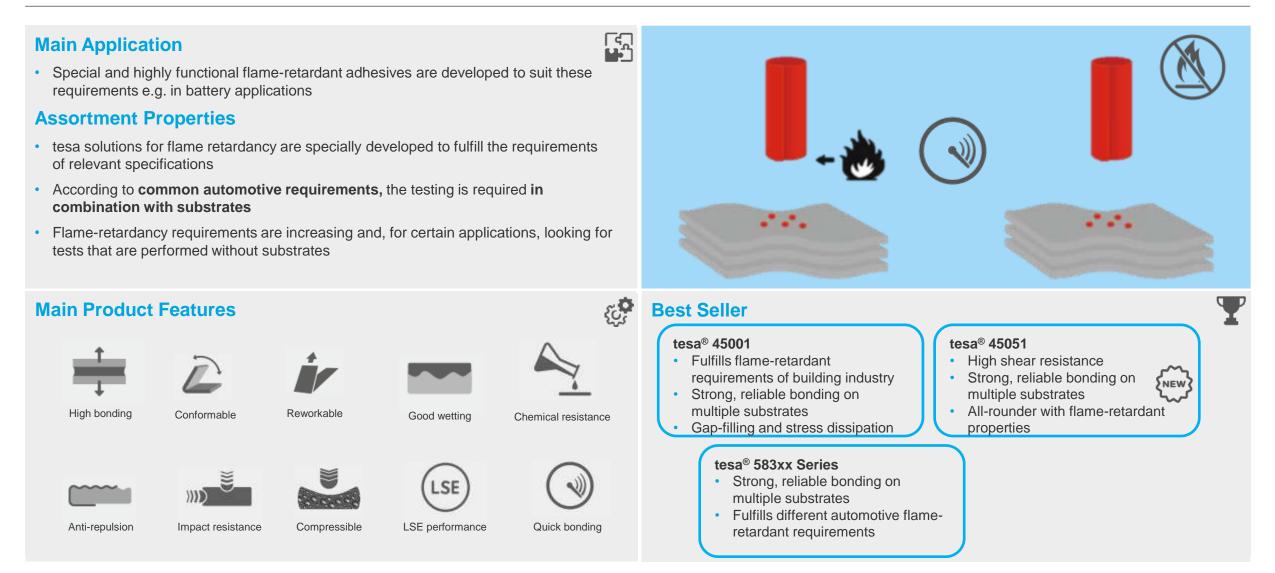
1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE FLAME-RETARDANT SOLUTIONS

Double-Sided Adhesive Tape: Flame Retardancy







SPECIFIC PRODUCT ASSORTMENT

Double-Sided Adhesive Tape: Flame-Retardant



	Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion to steel [N/cm]	FMVSS 302 tape only	UL Norm	Description/special features
	tesa [®] 45001	1,000	White	MOPP Red	1,360	Acrylic	PE foam	19.3/22	SE/NBR Burn rate = 0 mm/min	UL 94 HBF-HF1	Flame-retardant PE-foam tape with excellent bonding strength for permanent mounting in demanding applications
Ew	tesa [®] 45051	200	Transparent	MOPP Red	1,360	Acrylic	PET	12/9	SE/NBR Burn rate = 0 mm/min	UL 94 HBF-HF1	Thin & flexible Excellent converting properties
ENEW	tesa [®] 45063	800	White	White	On demand	Acrylic	Acrylic core	34/21	SE/NBR Burn rate = 0 mm/min	UL 94 HBF-HF1	mounting tape for demanding applications Viscoelastic Extra strong bonding Gap filling & shock absorbing
KNEW	tesa® 45065	1200	White	White	On demand	Acrylic	Acrylic core	35/21	SE/NBR Burn rate = 0 mm/min	UL 94 HBF-HF1	mounting tape for demanding applications Viscoelastic Extra strong bonding Gap filling & shock absorbing
	tesa [®] 58372	50	Transparent	White/Red logo Glassine	1,250	Tackified acrylic	PET	7.1	SE/NBR Burn rate = 0 mm/min	UL94 VTM-0	Flame-retardant tape specially designed for e-mobility applications
	tesa [®] 58373	80	Transparent	White/Red logo Glassine	1,250	Tackified acrylic	PET	7.5	SE/NBR Burn rate = 0 mm/min	UL94 VTM-0	Flame-retardant tape specially designed for e-mobility applications
	tesa [®] 58375	130	Transparent	White/Red logo Glassine	1,250	Tackified acrylic	Non-woven	8.0	SE/NBR Burn rate = 0 mm/min	UL94 VTM-0	Flame-retardant tape specially designed for e-mobility applications

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

ELECTRICALLY CONDUCTIVE SHIELDING AND GROUNDING





Functionally Conductive Adhesive Tape

Main Application

- EMI shielding and grounding
- Thermal management

Assortment Properties

- Filled acrylic adhesive systems with a balance between either electrical conductivity and adhesive properties (ECT) or thermal conductivity (TCT), adhesive, and gap-filling properties
- Simply decide what is most important for your application: bonding performance, conductivity, or both



Main Product Features





Balanced properties



High bonding







Best conductivity





Conductivity



Abrasion resistance

Best Seller

ئي}

tesa® ECT 6025x/6026x

 These series provide a balanced performance of conductivity and bonding performance

tesa® ECT 6037x

- · Highest conductivity in our assortment
- The contact resistance, even in harsh environmental conditions, is extremely low

tesa® ECT 6038x

- Best bonding performance in this assortment
- Offers very high peel-adhesion values, and is resistant to repulsive forces

tesa® TCT/TIM 5839x

- Excellent thermal conductivity
- Bonding strength with very good wetting and gap-filling properties!

ELECTRICALLY CONDUCTIVE MATERIALS

Balanced Conductivity and Bonding Properties



Product	Thickness [µm]	Color	Туре	Backing	Peel adhesion to SUS (initial/ultimate) [N/cm]	Contact resistance [mΩ.inch ²]	Surface resistance [mΩ.inch ²]	Shielding effectiveness [dB]	Product description
tesa® ECT <u>60251</u>	55	Gray	d/s Tape	Woven	4.6/0.5	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60252	55	Gray	d/s Tape	Woven	5.5/8.5	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60253	70	Gray	d/s Tape	Woven	4.8/9.7	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60254	100	Gray	d/s Tape	Woven	6.6/10.4	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60255	150	Gray	d/s Tape	Woven	4.5/10.5	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60256	200	Gray	d/s Tape	Woven	4.6/10.6	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60257	250	Gray	d/s Tape	Woven	4.8/10.8	0.05	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60264	17	Gray	d/s Tape	Non-woven	3.5/4.5	0.02	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60261	25	Gray	d/s Tape	Non-woven	4.0/5.6	0.02	0.2	>50	Balanced conductivity and bonding
tesa® ECT <u>60260</u>	35	Gray	d/s Tape	Non-woven	4.0/4.2	0.02	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60262	50	Gray	d/s Tape	Non-woven	5.4/8.3	0.02	0.2	>50	Balanced conductivity and bonding
tesa® ECT 60371	30	Black	d/s Tape	Non-woven	3.5/5.1	0.01	0.1	>60	Best conductivity
tesa® ECT 60372	50	Black	d/s Tape	Non-woven	4.3/5.6	0.01	0.1	>60	Best conductivity
tesa® ECT 60374	100	Black	d/s Tape	Woven	5.7/ 8.5	0.01	0.1	>60	Best conductivity
tesa® ECT <u>60381</u>	50	Gray	d/s Tape	Woven	8.0/10.0	0.06	0.3	>50	Best bonding
tesa® ECT 60384	100	Gray	d/s Tape	Woven	8.0/10.0	0.06	0.3	>50	Best bonding
tesa® ECT 60382	50	Gray	d/s Tape	Non-woven	8.0/10.0	0.06	0.3	>50	Best bonding
tesa® ECT 60385	100	Gray	d/s Tape	Non-woven	8.0/10.0	0.06	0.3	>50	Best bonding
tesa® ECT 60231	25	Matte Black	s/s Tape	Cond. fabric	3.0/4.1	0.05	0.2	>50	Modern, matte black design
tesa® ECT 60232	35	Matte Black	s/s Tape	Cond. fabric	3.5/4.5	0.05	0.2	>50	Modern, matte black design
tesa® ECT 60234	55	Matte Black	s/s Tape	Cond. fabric	4.5/6.5	0.05	0.2	>50	Modern, matte black design
tesa® ECT 60238	45	Matte Black	s/s Tape	Copper	5.5/7.0	0.05	0.2	>70	Modern, matte black design

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our practical experience. Nevertheless, tesa SE can make now arrantive, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

THERMAL INTERFACE MATERIALS



Good Thermal Conductivity + Excellent Bonding Strength with Very Good Wetting and Gap-Filling Properties

Product	Thickness	Color	Adhesive	Thermal conductivity ASTM D5470	Wet out	Gap-filling	90° Peel adhesion at RT/72h ASTM D3330	Dynamic shear at RT initial/72hr	Die-electric strength ASTM D-149	Product features
tesa® <u>60731</u>	30	White	Acrylic	0.6W/mK	89%	26%	4.3 N/cm		33 kV/mm	Good thermal conductivity and excellent bonding strength with very good wetting and gap-filling properties
tesa [®] <u>60732</u>	50	White	Acrylic	0.6W/mK	90%	69%	4.7 N/cm		25 kV/mm	Same as above
tesa® <u>60733</u>	100	White	Acrylic	0.7W/mK	92%	93%	5.0 N/cm		20 kV/mm	Same as above
tesa [®] <u>58394</u>	125	White	Acrylic	0.7W/mK	81%	85%	3.9 N/cm	234N/300N	36 kV/mm	Same as above and with FR UL94-VTM2
tesa [®]	250	White	Acrylic	0.8W/mK	89%	90%	4.1 N/cm	224N/522N	28 kV/mm	Same as above and with FR UL94-V2
tesa [®]	400	White	Acrylic	0.8W/mK	84%	84%	5.4 N/cm	258N/600N	24 kV/mm	Same as above and with FR UL94-V2
tesa [®] 58326	1200	White	UV-curable	2 W/mK	92%	92%	0,55 N/cm	84N/93N	>13 kV/mm	Very Good thermal conductivity, with FR UL94- V0
tesa [®] 58327	1500	White	UV-curable	2 W/mK	92%	92%	0,57 N/cm	80N/85N	>13 kV/mm	Very Good thermal conductivity, with FR UL94- V0
tesa [®] 58328	2000	White	UV-curable	2 W/mK	92%	92%	0,57 N/cm	84N/85N	>13 kV/mm	Very Good thermal conductivity, with FR UL94- V0

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE DISPLAY SOLUTIONS

Optically Clear Adhesive and Frame-Mounting Tape





Main Application Bonding of displays and smart surfaces with diverse requirements Optically clear bonding of glass and plastic substrates tesa ACX^{plus} for strong and reliable frame- and housing-mounting applications **Assortment Properties** 1 stati · tesa solutions for displays and smart surfaces serve the requirements of the different applications and substrates with dedicated products · Optically clear tapes suitable for glass and plastic substrates with excellent optical performance · Specially designed products offer outgassing-resistant performance requested when plastic substrates are in use Excellent performance for shock and impact resistance ξ**Ο Best Seller Main Product Features** tesa® 69408 tesa[®] 69608 Pressure-sensitive OCA UV-curable OCA Suitable for cover glass, ITO, Suitable for cover glass, ITO, polarizer polarizer Superior gap-filling Easy converting High bonding UV-curable Outgassing resistance **Optically Clear** tesa® 7805 tesa® 69808 UV-curable outgassing-resistant · High shear strength and OCA temperature resistance • Additionally, suitable for plastic High shock resistance Chemical resistance Impact resistance High shear strength Deep-black color cover material Excellent on-display substrates Superior gap-filling

AUTOMOTIVE DISPLAY SOLUTIONS

Optically Clear Adhesive

Product	Thickness	Color Type Transmission Haze Color R. index [N/cm]					Gap-filling [%]	DK at 100 kHz	Young's modules	Features							
	[µm]		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[%]	[%]	L	а	b		Glass	PET	PC	PMMA			[MP]	
tesa® <u>69401</u>	25	Trans- parent	PSA	>99	<0.5	99.95	0.00	0.02	1.48	5.4	4.1	5.9	5.8	10–15	4.9	0.33	PSA and OCA specially modified for laminating films and suitable for touch sensors, polarizers, and glass
tesa [®] <u>69402</u>	50	Trans- parent	PSA	>99	<0.5	99.84	0.00	0.03	1.48	6.3	4.3	6.4	6	10–15	4.9	0.33	PSA and OCA specially modified for laminating films and suitable for touch sensors, polarizers, and glass
tesa [®] <u>69404</u>	100	Trans- parent	PSA	>99	<0.5	99.70	-0.03	0.08	1.48	6.9	4.8	7	6.2	10–15	4.9	0.33	PSA and OCA specially modified for laminating films and suitable for touch sensors, polarizers, and glass
tesa® <u>69405</u>	125	Trans- parent	UV-curable	>99	<0.5	99.60	-0.06	0.13	1.48	7.8	5.4	7.7	6.4	10–15	4.9	0.33	PSA and OCA specially modified for laminating films and suitable for touch sensors, polarizers, and glass
tesa® <u>69604</u>	100	Trans- parent	UV-curable	>99	<0.5	99.50	-0.04	0.04	1.48	12.2	9.4	15.1	13.2	30	4.5	0.29	UV-cured OCA with excellent wet out and gap-filling for cover-glass lamination
tesa [®] <u>69606</u>	150	Trans- parent	UV-curable	>99	<0.5	99.30	-0.05	0.06	1.48	14.4	10.4	17.1	15.5	30	4.5	0.29	UV-cured OCA with excellent wet out and gap-filling for cover-glass lamination
tesa [®] <u>69804</u>	100	Trans- parent	UV-curable	>99	<0.5	99.60	-0.06	0.12	1.48	11.7	7.9	13.2	12.5	30	4.7	1.0	UV-cured OCA with excellent wet out and gap-filling. Suitable for plastic covers due to excellent outgassing resistance.
tesa [®] <u>69806</u>	150	Trans- parent	UV-curable	>99	<0.5	99.40	-0.08	0.18	1.48	13.3	8.4	15.3	14.1	30	4.7	1.0	UV-cured OCA with excellent wet out and gap-filling. Suitable for plastic covers due to excellent outgassing resistance.
tesa [®] <u>69808</u>	200	Trans- parent	UV-curable	>99	<0.5	99.10	-0.11	0.21	1.48	16.4	9.3	16.5	17.1	30	4.7	1.0	UV-cured OCA with excellent wet out and gap-filling. Suitable for plastic covers due to excellent outgassing resistance.
tesa® <u>69802</u>	50	Trans- parent	UV-curable	>99	<0.5	99.90	-0.05	0.06	1.48	9.0	6.1	9.8	9.5	30	4.7	1.0	UV-cured OCA with excellent wet out and gap-filling. Suitable for plastic covers due to excellent outgassing resistance.

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.



AUTOMOTIVE DISPLAY SOLUTIONS

Frame-Mounting Tape



Product	Thickness	Color	Туре		Pee	el adhesion [N/cm]	Features	
	[µm]			PC	Steel	Glass	Aluminum	
tesa® <u>7805</u>	500	Black	ACX ^{plus}	40	11	40	28	Display-frame and housing-mounting tape with high shear resistance and excellent compensation for thermal expansion of parts. Strong performance on common display substrates.
tesa [®] 61057	350	Black	ACXplus	34	19	18	16	Display-frame and housing-mounting tape with high shear resistance and excellent compensation for thermal expansion of parts. Strong performance on common display substrates.
tesa® <u>61058</u>	400	Black	ACX ^{plus}	38	22	16	13	Display-frame and housing-mounting tape with high shear resistance and excellent compensation for thermal expansion of parts. Strong performance on common display substrates.

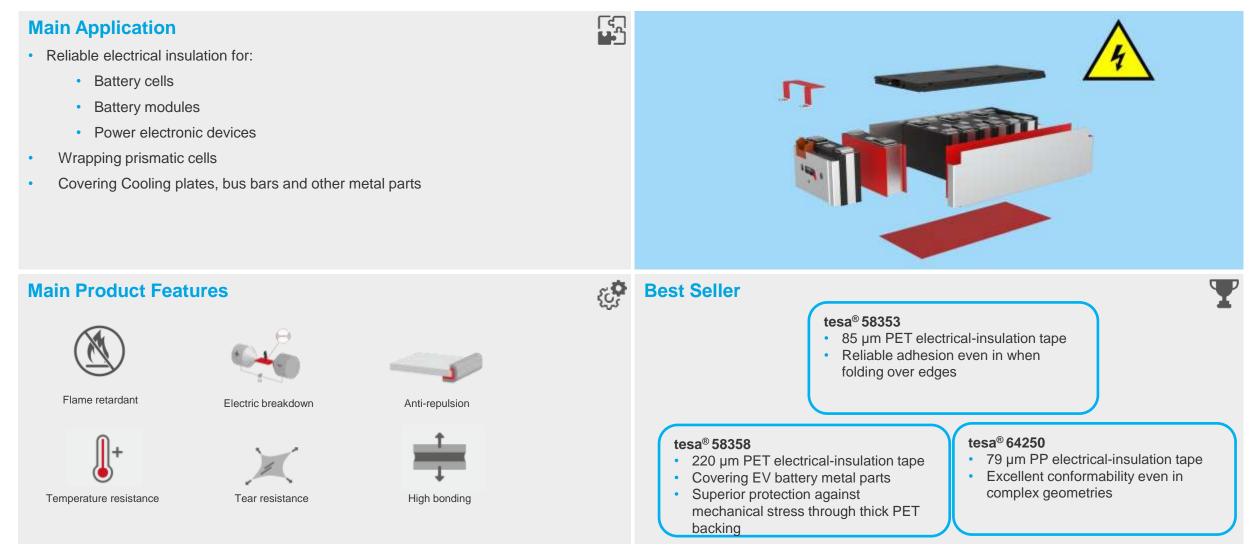
1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE E-MOBILITY SOLUTIONS

Electrical-Insulation Tape for E-Mobility Applications







SPECIFIC PRODUCT ASSORTMENT

Electrical-Insulation Tape for E-Mobility Applications



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Dielectric-breakdown voltage [kV]	Surface and volume resistance $[\Omega] / [\Omega^* cm]$	Peel adhesion, steel, initial /180 ° [N/cm]	Description/special features
tesa [®]	85	Black	PE-coated paper	1,372	Tackified acrylic	PET	>7	>10 ¹³ /> 10 ¹⁴	6	Strong PET backing for reliable protection. Reworkable up to 24h Very suitable for bending around edges
tesa [®] <u>58358</u>	220	Black	Glassine paper	1,372	Tackified acrylic	PET	>8	>10 ¹³ /> 10 ¹⁴	15.3	Extra thick PET backing to counter mechanical stress and provide reliable protection against dielectric breakdown
tesa [®] <u>64250</u>	79	Transparent Blue	n/a	1,300	Tackified acrylic	PP	>7	>10 ¹³ /> 10 ¹⁴	3	Very suitable for bending around edges
tesa [®] <u>7100</u>	100	Black	Glassine paper	1,250	Tackified acrylic	PET	>4	>10 ¹³ /> 10 ¹⁴	7.5	Reliable standard protection against dielectric breakdown
tesa [®] <u>7250</u>	50	Black	n/a	1,250	Tackified acrylic	PET	>4	>10 ¹³ /> 10 ¹⁴	4.2	Reliable standard protection against dielectric breakdown

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE E-MOBILITY SOLUTIONS

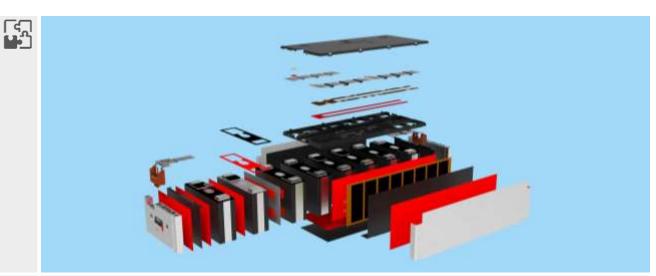
Mounting Tape for E-Mobility Applications





Main Application

- Mounting and lamination applications in EV battery modules
 - Mounting flexible printed circuits and heating plates
 - Mica- and Polycarbonate-sheet mounting
 - Module-frame mounting
 - · Cell-to-cell-mounting



Main Product Features





Conductivity





Electric breakdown







High bonding



tesa® 58323

- 75 µm PET non-woven acrylic d/s tape
- Perfect mounting and lamination of flexible printed circuits (FPC) and heating plates in EV batteries

tesa[®] 4982

- 100 µm PET acrylic d/s tape
- Mounting of mica- and PCinsulation sheets on and between battery cells

tesa[®] 58372

- 50 µm PET flame-retardant acrylic d/s tape
- Excellent mounting of battery parts that need extra protection in case of fire

SPECIFIC PRODUCT ASSORTMENT

Mounting Tape for E-Mobility Applications



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion, steel, initial/180° [N/cm]	Dynamic shear resistance, steel/steel, initial [MPA]	Dielectric-breakdown voltage [kV]	Description/special features
tesa [®] <u>58323</u>	75	White translucent	Glassine paper	1,250	Tackified acrylic	PET non-woven	6.0	1.6	>1.5	Non-woven backing for excellent conformability
tesa [®] <u>4972</u>	48	Transparent	Glassine paper	1,250	Tackified acrylic	PET film	7.0	1.6	>4	Strong PET backing for robust & reliable bonding
tesa [®] <u>4980</u>	80	Transparent	Glassine paper	1,250	Tackified acrylic	PET film	8.6	1.6	>4	Strong PET backing for robust & reliable bonding
tesa® <u>4982</u>	100	Transparent	Glassine paper	1,372	Tackified acrylic	PET film	8.2	1.6	>4	Strong PET backing for robust & reliable bonding
tesa® <u>4942</u>	140	Transparent	Glassine paper	1,372	Tackified acrylic	PET film	10.3	1.6	>4	Strong PET backing for robust & reliable bonding
tesa [®] <u>4965</u>	205	Transparent	Glassine paper	1,372	Tackified acrylic	PET film	11.5	1.6	>4	Strong PET backing for robust & reliable bonding
tesa [®] <u>58372</u>	50	Transparent	Glassine paper	1,250	Tackified acrylic (FR)	PET film (FR)	7.1	1.2	>3	Flame-retardant in accordance with UL94 VTM-0
tesa [®] <u>58373</u>	80	Transparent	Glassine paper	1,250	Tackified acrylic (FR)	PET film (FR)	7.5	1.2	>4	Flame-retardant in accordance with UL94 VTM-0
tesa [®] <u>58375</u>	130	White translucent	Glassine paper	1,250	Tackified acrylic (FR)	PET non-woven (FR)	8.0	1.0	>4	Flame-retardant in accordance with UL94 VTM-0

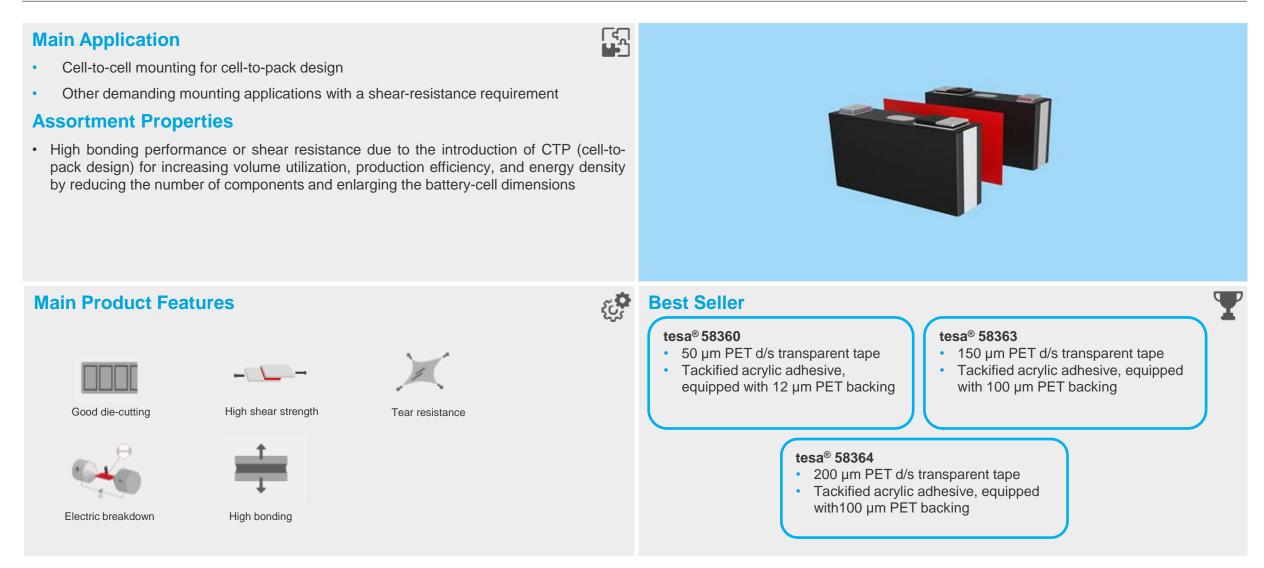
1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa® products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE E-MOBILITY SOLUTIONS

Highly Dynamic Shear Tape for E-Mobility Applications







SPECIFIC PRODUCT ASSORTMENT

Highly Dynamic Shear Tape for E-Mobility Applications



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel adhesion, steel, initial/180° [N/cm]	Dynamic shear resistance, blue PET/blue PET, initial [MPA]	Dielectric- breakdown voltage [kV]	Dynamic shear resistance, blue PET/blue PET, after aging* [MPA]	Description / Special Feature
tesa [®] 58333	30	Transparent	Glassine paper	1,250	Tackified acrylic	/	6.0	>2	/	>2	High dynamic shear mounting tape for mounting of EV battery cells
tesa [®] 58360	50	Transparent	Glassine paper	1,250	Tackified acrylic	12 µm PET film	7.0	>2	5.5	>2	High dynamic shear mounting tape for mounting of EV battery cells
tesa [®] 58362	100	Transparent	Glassine paper	1,250	Tackified acrylic	50 µm PET film	7.0	>2	9.8	>2	High dynamic shear mounting tape for mounting of EV battery cells
tesa [®] 58363	150	Transparent	Glassine paper	1,250	Tackified acrylic	100 µm PET film	6.5	>2	14.8	>2	High dynamic shear mounting tape for mounting of EV battery cells
tesa [®] 58364	200	Transparent	Glassine paper	1,250	Tackified acrylic	100 µm PET film	10.4	>2	14.4	>2	High dynamic shear mounting tape for mounting of EV battery cells

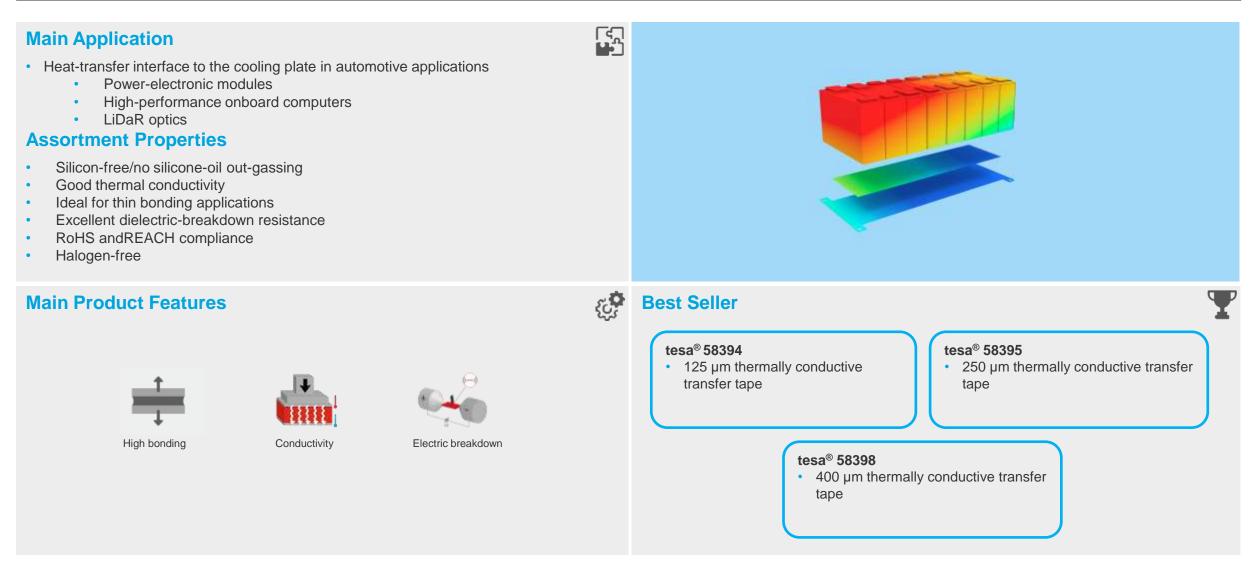
1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE E-MOBILITY SOLUTIONS

Thermally Conductive Tape







SPECIFIC PRODUCT ASSORTMENT



Thermally Conductive Tape

Product	Thickness [µm]	Color	Liner	Log-roll dimension [m x mm]	Adhesive	Backing	Peel adhesion, steel, 72hr/90° [N/cm]	Thermal conductivity ASTM D5470 [W/mK]	Dielectric-breakdown voltage [kV]	Description/special features
tesa [®] <u>58394</u>	125	White	Paper	1,000	Tackified acrylic	1	4.8	0.7	4.1	Acrylic-based, tacky and soft thermal interface material
tesa [®] <u>58395</u>	250	White	Paper	1,000	Tackified acrylic	/	5.8	0.8	7.4	Acrylic-based, tacky and soft thermal interface material
tesa [®] <u>58398</u>	400	White	Paper	1,000	Tackified acrylic	/	6.7	0.8	9.8	Acrylic-based, tacky and soft thermal interface material

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE SURFACE-PROTECTION SOLUTIONS

Temporary and Permanent





Main Application

 Protection against contamination of and damage to sensitive interior or exterior surfaces including clear coats, metals, plastics, and textiles during assembly, transport, finishing, and production processes

Assortment Properties

- Resistant to environmental and mechanical impacts are temporary and permanent •
- Fulfilling to the variety of high-level market demands and customer requirements •
- Evaluated, approved, and reliably in use for thousands of parts in different industries around the world



Main Product Features



UV resistance



Weather resistance Environmental resistance







Approved and in use



Approved



Conformable

Reworkable



No ghosting

ون؟

Best Seller tesa® 50560 tesa® 51136 Exterior Interior • Glossy plastics Multiple surfaces No ghosting Mechanical resistance tesa[®] 50535 tesa® 51207 Transport protection Gliding tape Clear coats Plastics No residue • No scratches and squeaking noises

AUTOMOTIVE SURFACE-PROTECTION SOLUTIONS



Single-Sided Adhesive Tape: Filmic

Product	Thickness [µm]	Color	Liner	Standard log-roll width [mm]	Adhesive	Backing	Description/special features
tesa [®] <u>50530</u> PV3	79	White	No	1,400	Eva	Polyolefin film	Temporary OEM paint protection
tesa [®] <u>50535</u> PV7	61	White	No	1,400	Eva	Polyolefin film	Temporary OEM paint protection
tesa [®] <u>50560</u> PV1	52	White	No	1,400	Pib	Polyolefin film	For sensitive and glossy plastic such as PMMA, SAN, ABS
tesa® <u>50551</u>	70	Transparent	No	1,550	Acrylic	PE film	For aluminum and painted surfaces
tesa [®] <u>4848</u> PV1	48	Transparent	No	1,000	Acrylic	PE film	For anodized aluminum
tesa [®] <u>51136</u>	105	Green translucent	No	1,450	Acrylic	PE film	For sensitive polar and nonpolar surfaces even at demanding 3D geometries. Stronger PV2 adhesive
tesa® <u>51134</u>	84	Transparent	No	9,80	Acrylic	PE film	Similar to tesa [®] 51136
tesa [®] <u>7133</u>	80	Blue	No	1,200 1,650	Rubber	PP film	For rough glass and sensitive polar and nonpolar surfaces
tesa® <u>4289</u>	144	Yellow	No	1,650	Rubber	MOPP	High tensile strength with low elongation and good abrasion resistance
tesa [®] <u>64250</u>	79	Blue translucent	No	1,300	Acrylic	MOPP	Good tensile strength combined with conformability even at demanding 3D geometries
tesa® <u>51207</u>	114	Black transparent	Yes	510	Acrylic	PE-UHWM	UV-resistant gliding tape, against friction between components tesa [®] 51217 black tesa [®] 51206 transparent without UV resistance
tesa® <u>52994</u>	260	Transparent	Yes	1,245	Acrylic	PU	PU stone-chip protection film with high UV resistance

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa[®] product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubl, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE MASKING SOLUTIONS

Paper and Filmic Masking





Main Application

 Masking tape for paint or other finishing processes covering multiple applications, industries, and environments

Assortment Properties

- The assortment includes general paper masking products, fine-line tape, and specialty tape as well, fulfilling the variety of high-level market demands and customer requirements
- Products are evaluated, approved, and reliably in use for thousands of parts in different industries globally



Main Product Features



Environmental resistance Conformable







Approved and in use





Temperature resistance



Straight lines

Reworkable



Residue free

{c**?**

Tear resistance



AUTOMOTIVE MASKING SOLUTIONS

Single-Sided Adhesive Tape: Paper and Filmic



Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Temperature resistance [°C]	Description/special features
tesa® <u>7140</u>	168	Yellow	No	1,050	Rubber	PVC	170	Highly tear-resistant masking tape
tesa [®] <u>4174</u>	110	Olive	No	1,240 1,240	Rubber	PVC	150	Universal and conformable fine-line tape
tesa [®] <u>4244 P</u> V2	140	Yellow	No	1,020	Rubber	PVC	140	Conformable fine-line tape with strong adhesion
tesa® <u>50777</u>	132	Blue	No	1,220	Acrylic	PVC	160	Highly temperature-resistant fine-line tape with an acrylic adhesive
tesa [®] <u>50600</u>	80	Green	No	960 1,250	Silicone	PETP	220 (for 30 min.)	PET masking tape for temperature up to 220°C with silicone adhesive
tesa® <u>4341</u>	190	Brown	No	1,600	Rubber	Slightly creped paper	140	Masking tape with excellent adhesion and tear resistance
tesa [®] <u>4330</u>	175	Brown	No	970	Rubber	Slightly creped paper	160	Conformable and wet-grinding masking tape
tesa [®] <u>4432</u>	330	Brown	No	1,020	Rubber	Flat paper	100	Medium-grade paper stencil masking tape for sandblasting applications

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE MULTIPURPOSE SOLUTIONS

Single-Sided Specialties





Main Application

 Wide range of applications including mounting, repairing, bundling, wrapping, damping. noise-reducing, etc.

Assortment Properties

- Fabrics are one of our key competences and in use for multiple applications, industries, and environments
- The assortment includes general-purpose products in different grades, but as well special combinations of backing properties, adhesives, and finishings as well
- Some of these products have an outstanding level of performance and range of features, which makes them market leaders
 - Products are evaluated, approved, and reliably in use for thousands of parts in different industries around the world
- Special backings support the tape performance with their unique characteristics

Main Product Features







UV resistance

Anti-repulsion

Weather resistance Environmental resistance

Approved





Temperature resistance Chemical resistance

|||+

Reworkable







Approved and in use



Conformable





Best Seller

ني}

tesa® 4657

- Stress-resistant coated cloth
- Known in the market as "the gray tape"
- Strong adhesion

tesa® 50118

- Low VOC
- Strong acrylic adhesive
- PET fleece

tesa[®] 4651

- Flexible premium cloth
- Strong adhesion
- Different colors

tesa[®] 4688

- PE extruded cloth
- Repairing tape
- Different colors

AUTOMOTIVE MULTIPURPOSE SOLUTIONS

Single-Sided Adhesive Tapes: Cloth, Filmic, Fleece, Aluminum and Laser Labels



Product	Color	Liner	Standard log-roll width [mm]	Adhesive	Backing	Peel adhesion to steel [N/cm]	Temperature resistance [°C]	Description/special features
tesa [®] <u>4657</u>	Gray	No	965	Rubber	Acrylic-coated cloth	4.6	180	Special high-temperature cloth, ageing resistant. PV1 for easy unwinding
tesa® <u>4651</u>	Black, White, Yellow, Red, Gray, Brown	No	970	Rubber	Acrylic-coated cloth	3.3	140	Premium cloth, flexible and conformable
tesa [®] <u>4671</u>	Black, White, Red, Gray, Neon Yellow, Green, Orange, Pink	No	1,540 1,540	Rubber	Acrylic-coated cloth	3.5	140	Premium cloth "gaffer tape," flexible and conformable, matte surface
tesa [®] <u>4541</u>	Black, White	No	1,140	Rubber	Cloth	3.6	130	Premium-uncoated cloth, flexible and conformable
tesa [®] <u>53799</u>	Silver, Red, Blue, Dark Green	No	1,300	Rubber	PE-extruded cloth	3.6	130	Mid-grade cloth, flexible and conformable
tesa [®] <u>4688</u>	Black, White, Red, Blue, Silver	No	1,300	Rubber	PE-extruded cloth	4.5	110	Mid-grade cloth, "repairing tape"
tesa® <u>51036</u>	Black	No	1,140	Acrylic	PET cloth	3.0	150/3000h	Abrasion-resistant PET cloth
tesa [®] <u>68000</u>	Silver	Yes	1,130	Acrylic	Aluminum-glass cloth	6.0	>500	Heat-reflecting glass cloth
tesa [®] <u>50204</u>	Blue translucent	Yes	1,240	Acrylic	Filmic/non-woven	-	200	High-tack and good-shear filmic bonding, low VOC
tesa [®] <u>50118</u> PV1	Black, White	Yes	1,050	Acrylic	PET fleece	-	160	Noise-damping PET fleece with high adhesion to PET, low VOC
tesa® <u>51608</u>	Black	No	1,140	Rubber	PET fleece	3.0	105	Noise-damping PET fleece
tesa® <u>60632</u>	Silver	Yes	1,200	Acrylic	Aluminum	8.0	160	30µm, conformable to curved surfaces
tesa [®] <u>60652</u>	Silver	Yes	1,170	Acrylic	Aluminum	9.0	160	50µm, mechanically stable and conformable
tesa [®] <u>60672</u>	Silver	Yes	1,170	Acrylic	Aluminum	10.0	160	75µm, mechanically stable
tesa® <u>6930</u>	Black, Silver, White	Yes	300	Acrylic	Acrylic	1.8	120	Security-laser-markable label where tampering is evident: manipulation leaves visible trace
tesa [®] <u>6940</u>	Black, Yellow, Red	Yes	300	Acrylic	Acrylic	1.8	120	Security-high-speed-laser-markable label where tampering evident: manipulation leaves visible trace

1. The values in this section should be considered representative or typical only and should not be used for specification purposes. 2. tesa[®] products prove their impressive quality day in, day out, in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa SE can make no warrantice, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user's method of application. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted in tesa accordance with internal test methods in standard lab conditions.

AUTOMOTIVE BUZZ SQUEAK & RATTLE PREVENTION SOLUTIONS

Single-Sided Specialties





Main Application

- Noise reduction, primarily in automotive interior application.
- Increased need for BSR prevention due to e-mobility and reduced motor noises

Assortment Properties

- Excellent noise damping properties acc. to automotive standards
- Excellent conformability
- Suitable abrasion performance
- · Well-balanced adhesion for common automotive interior substrates such as plastics and metals.
- Provide a proven performance using backings that are approved by most global OEMs



Main Product Features





Good wetting Balanced properties Environmental resistance

Approved



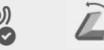


Chemical resistance





Approved and in use



Conformable

Temperature resistance

Reworkable



Noise reduction

ون؟

Best Seller

tesa® 603xx

- · Automotive industry proven and accepted adhesive and backings
- Broad thickness range
- **Excellent BSR prevention**
- properties

tesa® 512xx

- Gliding tapes for anti squeak performance
- acrylic adhesive
- PET fleece

tesa® 50118PV1

- Ultra Low VOC Adhesive
- Strong acrylic adhesive
- PET fleece for balanced conformability and BSR prevention

Outlook

- A range of doublesided tapes is available for lamination purpose
- New transfer assortment 755xx launched e.g. 75507 - 75µm

Anti-repulsion

AUTOMOTIVE BUZZ SQUEAK & RATTLE PREVENTION SOLUTIONS





Single-Sided Specialties

Product	Thickness [µm]	Color	Liner	Standard log roll width [mm]	Adhesive	Backing	Peel Adhesion on steel [N/cm]	Temperature Resistance [°C]	Description / Special Feature are measured according to SAE 2192 / ISO 6722 norms
tesa [®] 60303	230	Black	PET	1140	Acrylic	PET fleece	4	160°C	Noise damping class C and abrasion resistance class A.
tesa [®] 60307	480	Black	PET	1140	Acrylic	PET fleece	3	160°C	Noise damping class D and abrasion resistance class C
tesa [®] 60310	525	Black	PET	1140	Acrylic	PA velours	3	160°C	Noise damping class E and abrasion resistance class D
tesa® 50118PV1	540	White	Glassine	1050	Acrylic	PET fleece	8.5 (on PET)	160°C	Noise damping class C
tesa [®] 50118PV2	540	White	Glassine	1050	Modified Acrylic	PET fleece	3.5 (on PE)	160°C	Noise damping class C
tesa [®] 50128	390	Black	Glassine	500	Modified Acrylic	PP non woven	4 (on PE)	160°C	Available on demand
tesa [®] 51026	260	Black	none	1150	Acrylic	PET cloth	5.5	150°C	Noise damping class A and abrasion resistance class D
tesa® 51036	260	Black	none	1140	Acrylic	PET cloth	5	150°C	Noise damping class A and abrasion resistance class D
tesa® 4651	310	Grey	None	965	Rubber	acrylic-coated cloth	3.3	130°C	Available on demand
tesa [®] 4657	290	Grey	None	970	Rubber	acrylic-coated cloth	4	180°C	Available on demand
tesa [®] 51206	114	Translucent	Glassine	510	pure acrylic	PE	4.3	On demand	Available on demand
tesa [®] 51207	114	Transparent	Glassine	510	pure acrylic	PE	4.3	On demand	Available on demand
tesa [®] 51217	154	Transparent	Glassine	510	pure acrylic	PE	4.3	On demand	Available on demand

1. The values in this section should be considered representative or typical only and should not be used for specificationpurposes. 2. tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user's methods in standard lab conditions. If you are in any doubt, our technical support staff will be glad to support you. 3. Measurements were conducted acc. to tesa internal test methods in standard lab conditions.



tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data mentioned above are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. The user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.