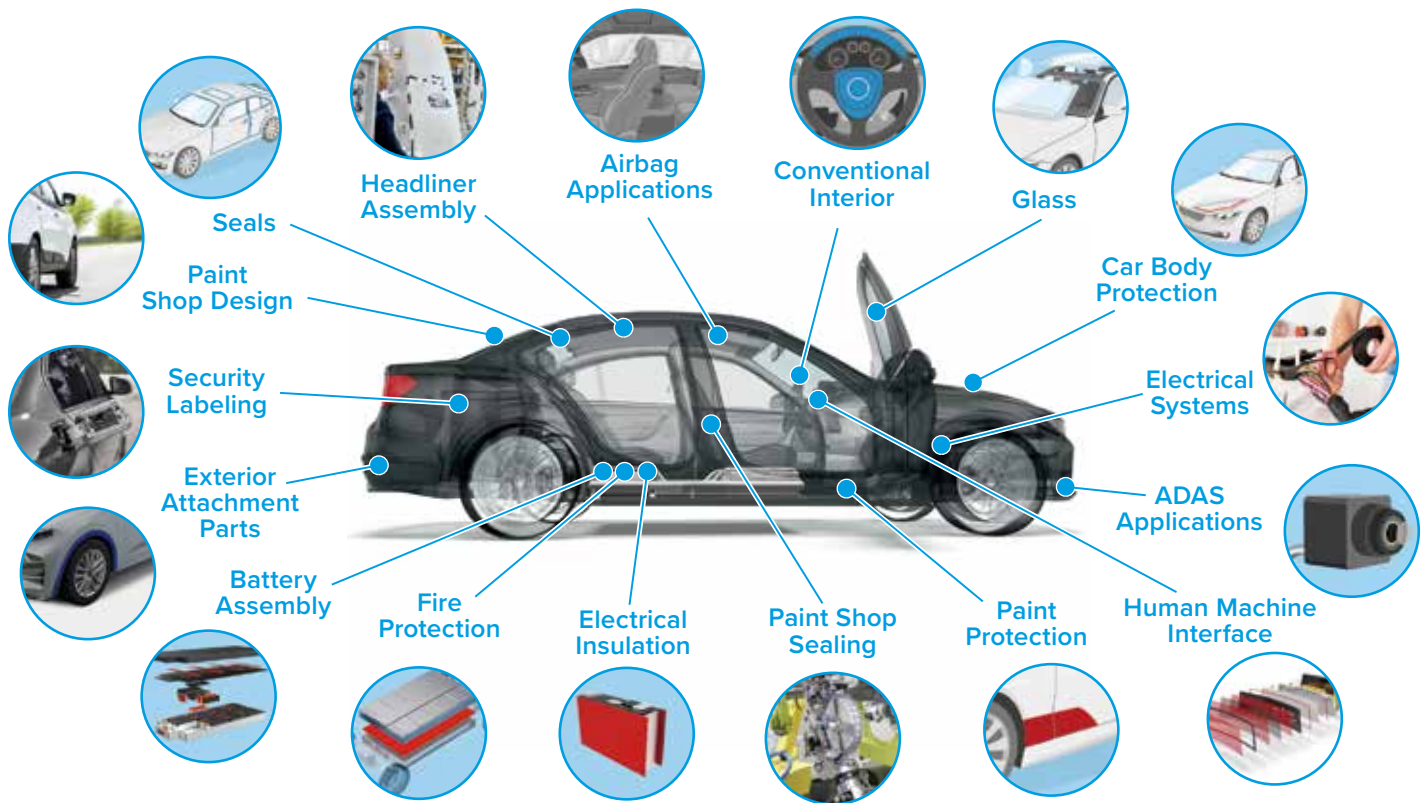


A silver car is shown from a side-rear perspective, parked on a paved road. The background features a horizon line over a body of water under a cloudy sky. The car's design is modern, with visible door handles and a side mirror.

Adhesive Solutions for the Automotive Industry

Automotive Assortment Folder

Your Complete Partner



Our labs and technical experts

With our extensive experience in adhesive technology, we have developed a large portfolio of adhesive products for automotive 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.

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Holistic and Science-based Approach for 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.



“For more than 125 years, tesa has been working on improving our customers’ operations, products and lives in a sustainable way with the help of innovative adhesive solutions. In 2022, we further increased the importance of our sustainability strategy with five highly ambitious action areas. We have made sustainability a priority for tesa and are working on this important transformation of our business with greater speed and urgency than previously planned. We intend to use our expertise and passion to develop adhesive solutions and products that are more sustainable.”

Dr. Norman Goldberg
CEO tesa SE

tesa sustainability goals

Our mission is to increase the pace at which we reduce emissions, vastly improve the sustainability of our products and packaging and ensure responsible sourcing. We have begun to extensively optimize our manufacturing processes at our plants and aim to achieve climate-neutral production by 2030. In the coming years, we will also be investing millions in research projects, knowledge, sustainable materials and our production facilities. We have been involved in the “Business Ambition for 1.5 °C initiative” since 2006. We have also emphasized once again our commitment to the ten principles of the United Nations Global Compact and to the Sustainable Development Goals, which we have already been pursuing for many years. In other words, we now intend to make an even greater contribution. Last year, we succeeded in cutting our energy-related CO₂ emissions (Scope 1 & 2) by 27 percent in absolute terms (according to the market-based method) compared to 2018.

All employees support this endeavor — our specialists in the development centers in Germany, the USA and China are thinking differently, creatively and from new perspectives. Our customers are providing daily input on what matters to them for the future and how tesa can play its part in helping them to hit their sustainability targets.

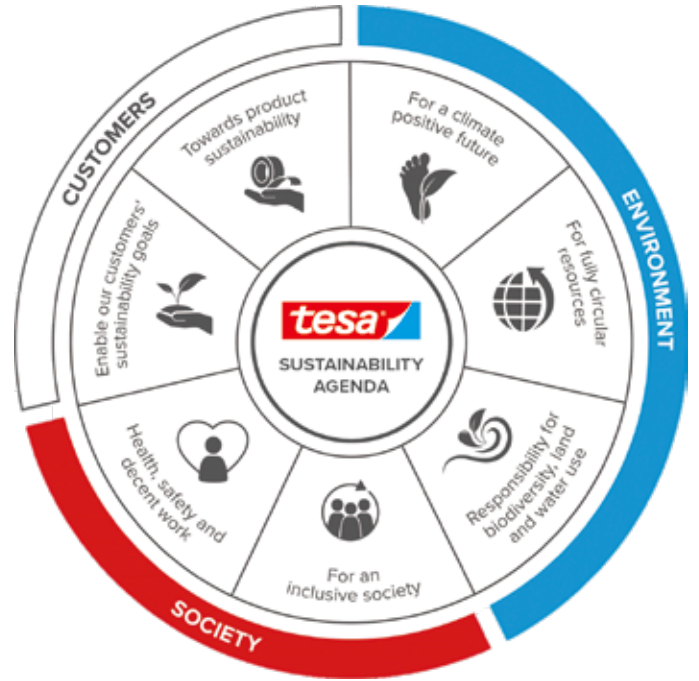
For us, as a company in the chemicals industry, pursuing a holistic perspective and a science-based approach determines our actions and is a matter of course. tesa employs more than five hundred scientists, engineers and product developers around the globe with the expertise to come up with innovative, sustainable products and processes. By focusing on technical innovation, we have our sights set not only on reducing our environmental footprint, but also on achieving sustainable growth for tesa.

Importance of sustainability in our corporate strategy

We view sustainability as our responsibility, as an attitude — and as an opportunity. Sustainable behavior requires us to think one step further and to continuously improve. That is why sustainability is a firmly established key component of our corporate strategy at tesa. We want to use all our expertise and passion to develop products and adhesive solutions that are more sustainable.

Our sustainability strategy

We revised our sustainability strategy in 2022 and identified five strategic action areas for which we formulated long-term targets up to 2030. The action areas cover our entire value chain: Reduction of emissions, Responsible sourcing, Use of recycled and bio-based materials, Circular economy and reducing waste, and Enable sustainability at our customers.



tesa Sustainability Agenda

tesa sustainability goals

we do 

- reduce emissions
- source responsibly
- rethink materials
- push circularity
- support customers

Strategic action areas



Reduce emissions



Source responsibly



Rethink materials



Push circularity

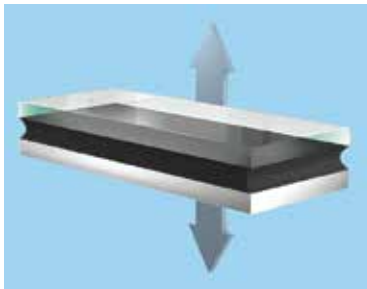


Support customers



Exterior Mounting

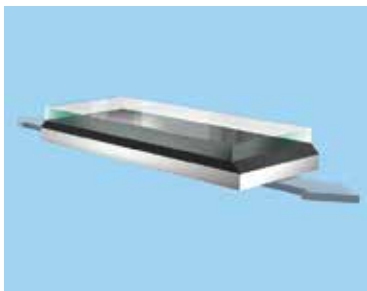
Attachment part mounting with tesa® ACX^{plus}



Bonding power

tesa® ACX^{plus} creates a powerful bond even between materials with different surface characteristics, such as automotive attachment parts and clear coats. It ensures:

- Reliable bond on clear coat and other vehicle parts even after short dwelling time
- Securing of the parts' edges against lifting
- Very high reliability throughout the vehicle's lifetime
- Design flexibility with limited bonding area



Stress dissipation

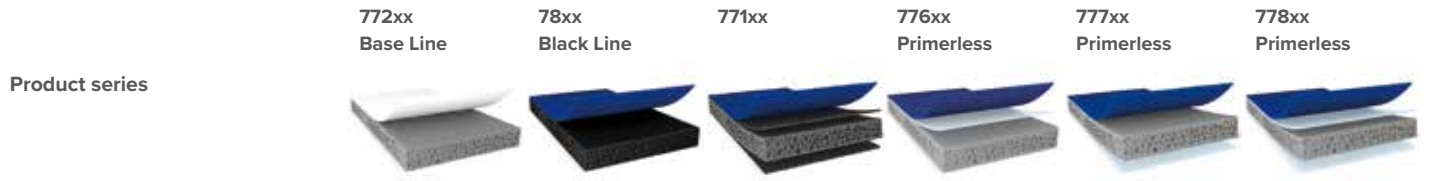
During the lifetime of a vehicle, static and dynamic stress act upon the constructive bond between the car body and the attachment part. These can be caused by different thermal elongation of the respective substrates. Due to the viscoelastic behavior of tesa® ACX^{plus}, the stress can be optimally dissipated, and a secure bond is assured even during extreme temperature changes.



Unique conformability

With the high conformability of tesa® ACX^{plus}, it is applicable in curves and corners without lifting of the liner. In addition, minor surface irregularities of the parts bonded together can be compensated for, so that a maximum adhesion surface is achieved for a long-lasting bond.

tesa® ACX^{plus} - Acrylic Foam Tape



Product series		772xx Base Line	78xx Black Line	771xx	776xx Primerless	777xx Primerless	778xx Primerless	
Backing material		Soft acrylic foam	Foamed acrylic	Soft acrylic foam	Soft acrylic foam	Soft acrylic foam	Soft acrylic foam	
Type of adhesive	Open side	Pure acrylic	Modified acrylic	Tackified acrylic	Pure acrylic	LSE	LSE	
	Covered side	Pure acrylic	Modified acrylic	Tackified acrylic	LSE	Pure acrylic	LSE	
Color		Gray	Deep black	Black	Gray	Gray	Gray	
Thickness variations		400 µm: 77204 600 µm: 77206 800 µm: 77208 1000 µm: 77201 1200 µm: 77202	500 µm: 7805 800 µm: 7808 1100 µm: 7811 1200 µm: 7812 1500 µm: 7815 2000 µm: 7820	800 µm: 77108 1200 µm: 77112 1500 µm: 77115	800 µm: 77608 1100 µm: 77611 1500 µm: 77615	800 µm: 77708 1100 µm: 77711 1500 µm: 77715	500 µm: 77805 800 µm: 77808 1100 µm: 77811 1500 µm: 77815	
Reference product		tesa® 77212	tesa® 7811	tesa® 77112	tesa® 77611	tesa® 77711	tesa® 77811	
Thickness		1200 µm	1100 µm	1200 µm	1100 µm	1100 µm	1100 µm	
90° peel adhesion¹	ASTM Steel	Open side	32 N/cm*	33 N/cm*	30 N/cm*	41 N/cm*	33 N/cm*	35 N/cm*
	ABS	Open side	12 N/cm*	35 N/cm*	25 N/cm*	12 N/cm*	36 N/cm*	31 N/cm*
	MSE clearcoat (polar)²	Covered side	31 N/cm*	28 N/cm*	30 N/cm*	36 N/cm*	32 N/cm*	39 N/cm*
	LSE clearcoat (un-polar)³	Covered side	27 N/cm*	32 N/cm*	27 N/cm*	44 N/cm*	30 N/cm*	45 N/cm*
Dynamic shear resistance⁴	PP/EPDM and MSE clearcoat⁴	Open side	79 N/cm*	69 N/cm*	81 N/cm*	84 N/cm*	68 N/cm*	71 N/cm*
	PP/EPDM and MSE clearcoat⁴	Covered side	38 N/cm**	19 N/cm**	35 N/cm**	20 N/cm**	27 N/cm**	24 N/cm**
Temperature resistance⁵	Short term (15 min.)	120 °C	120 °C	120 °C	120 °C	120 °C	120 °C	
	Long term (3 months)	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C	

¹ 3 days | ² MSE = medium surface energy | ³ LSE = low surface energy | ⁴ Pre-treatment of PP/EPDM side except for 77811/77711

⁵ Static shear tests. Displayed values are target values, values can differ by customer substrates, load and test method.


* RT | ** 80°C

PE Foam Tape

Product group		tesa® 66108	tesa® 6285x / 62708	tesa® 6290x	tesa® 649xx
					
Backing material		PE foam	PE foam	PE foam	Soft acrylic foam
Type of adhesive		Tackified acrylic	Pure acrylic	Acrylic	LSE
Color		Black	Black	Black	Black
Key characteristics		General purpose	High temperature performance	High initial performance	Primerless
Thickness variations		800 µm: 66108	500 µm: 62852 800 µm: 62708 900 µm: 62855 1200 µm: 62856	400 µm: 62904 600 µm: 62906	500 µm: 64905 800 µm: 64908 1200 µm: 64912
Reference product		tesa® 66108	tesa® 62708	tesa® 60906	tesa® 64908
Thickness		800 µm	800 µm	600 µm	800 µm
90° peel adhesion¹	ASTM Steel	10 N/cm*	15 N/cm*	19 N/cm*	19 N/cm*
	ABS	10 N/cm*	15 N/cm*	19 N/cm*	—
	PP	10 N/cm*	—	—	19 N/cm*
Tensile strength		8 N/cm*	18 N/cm*	11 N/cm*	8 N/cm*
Temperature resistance²	Short term (15 min.)	80 °C	120 °C	110 °C	80 °C
	Long term (3 months)	80 °C	100 °C	100 °C	80 °C

¹ 14 days | ² Static shear tests. Displayed values are target values, values can differ by customer substrates, load and test method. * RT

High-initial Performance Tape (HiP)

	Product group	tesa® 92xxx HiP	tesa® 92108 HiP / 800 µm	
	Backing material		None	Steel (initial)
Type of adhesive		High performance polymer foam	Steel (3 days)	35 N/cm
Color		Black	PP (initial)	28 N/cm
Thickness variations		500 µm: 92105 800 µm: 92108 1100 µm: 92111	pp (3 days)	36 N/cm

Sealing Tape for Slush Skin (Single-sided Tape)



Product	tesa® 50340
Backing material	PU film
Type of adhesive	Acrylic
Color	Transparent
Thickness	105 µm

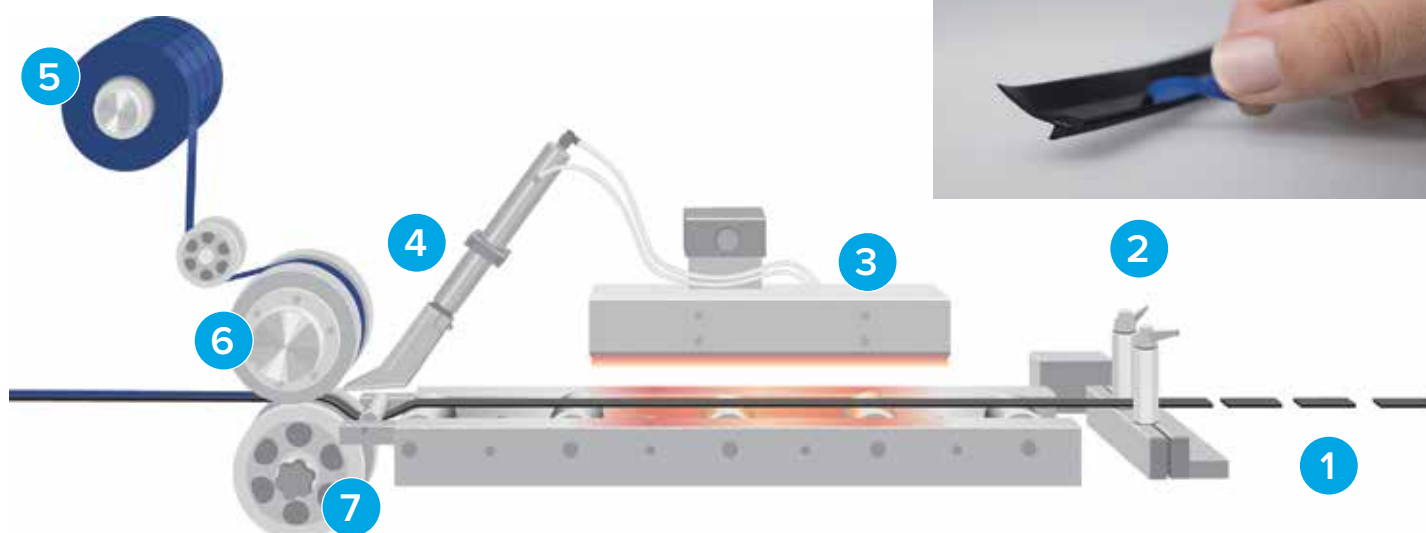
tesa® 92108 HiP / 800 µm		
90° Peel adhesion	Steel (initial)	32 N/cm
	Steel (3 days)	35 N/cm
90° Peel adhesion	PP (initial)	28 N/cm
	pp (3 days)	36 N/cm

tesa® ACX^{plus} Seal Line - Acrylic Foam Tape for Seal Mounting



Product group		tesa® ACX ^{plus} 745xx Seal Line
Backing material		Foamed acrylic
Type of adhesive	Open side	Acrylic
	Covered side	Heat-activatable
Color		Deep black
Thickness variations		800 µm: 74508 1200 µm: 74512

tesa® ACX ^{plus} 74508 Seal Line / 800 µm		
90° Peel adhesion	Glass (1 day)	56 N/cm
	Glass (10 days, warm / humid*)	60 N/cm
T-Peel test	TPE (1 day)	35 N/cm
	TPE (10 days, warm / humid*)	40 N/cm



Heat activating process

1. Continuously or discontinuously feeding the profile
2. Positioning of the profile
3. Infrared lamp to preheat the profile (optional)

4. Hot air/blowtorch*
5. Unwinding station
6. Water cooled lamination unit
7. Unchilled lamination unit

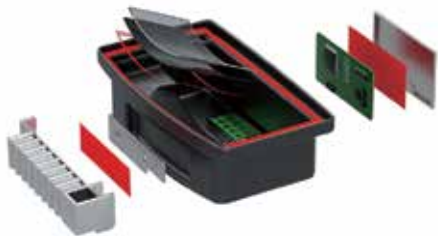
*Blowtorch is displaceable, so the hot air does not heat the machine and tape whilst machine is not running



Interior Mounting

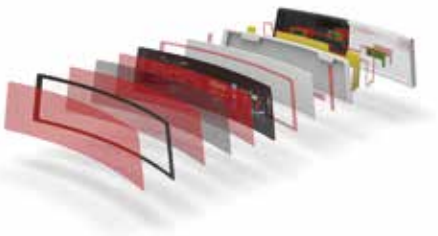
For next generation Human Machine Interfaces

Most haptic buttons have already been replaced by displays and seamlessly integrated smart surfaces. Demanding requirements can be met with tesa HMI tapes which enable innovative designs such as complex curved shapes. We offer reliable tape solutions for extreme conditions involving direct sun exposure.



Head-up display

We offer reliable tape solutions for extreme conditions involving direct sun exposure. Check out our viscoelastic mounting tapes, the approved solution of the world's leading HUD OES.



Automotive display

With tesa HMI tapes demanding automotive requirements can be met and innovative designs like complex shapes are enabled. Check out our OCA assortment, which enables optical bonding even on curved and round shapes.

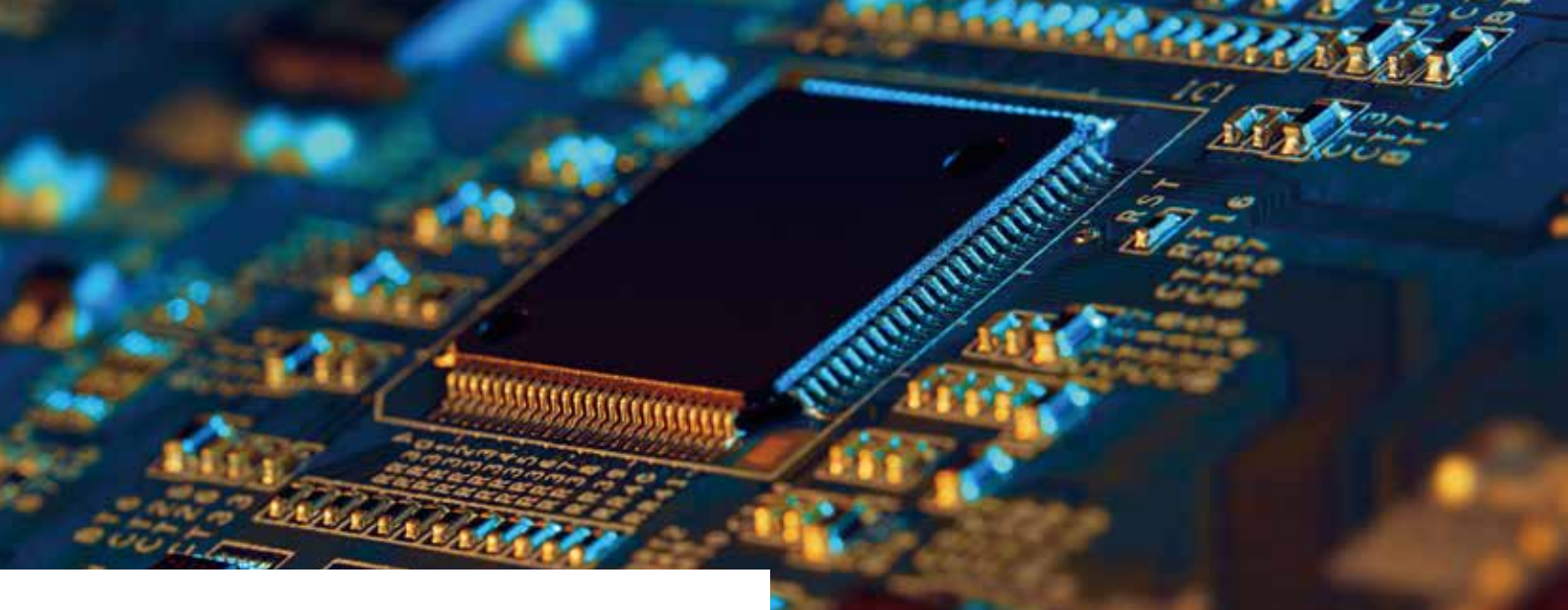


Smart surface HMI





Most haptic buttons have already been replaced by displays and seamlessly integrated smart surfaces. Analyze our outgassing resistant OCA options, specifically designed for the optical integration of printed touch films behind polycarbonate covers.

Electrically Conductive Tape (ECT)

	tesa® 6025x / 6026x	tesa® 6036x	tesa® 6037x	tesa® 6038x	
Product group					
Backing material	Conductive woven / non-woven	Conductive woven	Conductive woven / non-woven	Conductive woven / non-woven	
Type of adhesive	Conductive acrylic	Conductive acrylic	Conductive acrylic	Conductive acrylic	
Color	Gray	Gray	Black	Gray	
Key characteristics	Balanced property	High bonding strength, high conductivity	Best conductivity	Best bonding strength, repulsion resistance	
Thickness variations	50 µm: 60262 55 µm: 60251 / 60252 70 µm: 60253 100 µm: 60254 150 µm: 60255 200 µm: 60256 250 µm: 60257	50 µm: 60362 100 µm: 60364	30 µm: 60371 50 µm: 60372 100 µm: 60374	30 µm: 60380 50 µm: 60381 / 60386 100 µm: 60384 / 60388	
Reference product	60262	60362	60372	60381	
Thickness	50 µm	50 µm	50 µm	50 µm	
Peel adhesion¹	Steel (initial)	5.4 N/cm	7.0 N/cm	4.3 N/cm	8.0 N/cm
	Steel (14 days)	8.3 N/cm	8.0 N/cm	5.6 N/cm	10.0 N/cm
Surface resistance (x-y-direction)	0.2 mΩ.sq	0.1 mΩ.sq	0.1 mΩ.sq	0.3 mΩ.sq	
Contact resistance (z-direction)	0.05 mΩ.inch ²	0.01 mΩ.inch ²	0.01 mΩ.inch ²	0.06 mΩ.inch ²	
Shielding effectiveness	> 50 -dB	> 60 -dB	> 50 -dB	> 50 -dB	



Thermal Conductive Tape (TCT)

	tesa® 6073x	tesa® 6074x	tesa® 5839x	tesa® 5832x
Product group				
Backing material	None	None	None	None
Type of adhesive	Acrylic	Acrylic	Acrylic	Acrylic
Color	White	White	White	White
Key characteristics	Great bonding/wetting, good conductivity	Great bonding/wetting, good conductivity	Great electrical insulation	Great electrical insulation
Focus application	Lamination / Mounting	Lamination / Mounting	Mounting	Gap filling
Thickness variations	50 µm: 60732 100 µm: 60733	10 µm: 60742 30 µm: 60743 50 µm: 60744 100 µm: 60745	125 µm: 58394 250 µm: 58395 400 µm: 58398 800 µm: 58399	1200 µm: 58326 1500 µm: 58327 2000 µm: 58328
Reference product	60733	60745	58394	58326
Thickness	100 µm	100 µm	125 µm	1200 µm
Peel adhesion Steel (initial)	5.0 N/cm	4.5 N/cm	4.8 N/cm	0.55 N/cm
Thermal conductivity¹ (z-direction)	0.7 W/mK	1.0 W/mk	0.7 W/mk	2.0 W/mk
Wetting	92 %	81 %	—	—
Breakdown voltage	—	—	4.1 kV	15 kV

¹ Measured by ASTM D5470

Double-sided Filmic Tape

tesa® 49xx



tesa® 519x



Product group

Backing material	PET	PET
Type of adhesive	Tackified acrylic	Tackified acrylic
Color	Transparent	Black
Thickness variations	30 µm: 4983 50 µm: 4972 80 µm: 4980 100 µm: 4982 125 µm: 4928 160 µm: 4967 200 µm: 4965 250 µm: 4926	30 µm: 59183 50 µm: 51972 80 µm: 51980 100 µm: 51982 125 µm: 51928 160 µm: 51967 200 µm: 51965 250 µm: 51926
Reference product	4982	51982
Thickness	100 µm	100 µm
Peel adhesion¹	SUS (initial)	11.0 N/cm
	SUS (14 days)	11.7 N/cm
Push-out	230 N	230 N
DuPont (xy)	0.5 J	0.5 J
DuPont (z)	0.2 J	0.2 J



Stretch-release Tape (Bond & Detach®)

tesa Bond & Detach® is an extraordinary adhesive technology used for demanding bonding applications that provides the option to be removed residue-free by stretching. The unique and patented technology was developed by tesa and offers the possibility of simple and secure reworkability during the entire product lifecycle – from production to end of life.



Product	tesa® 76555	Technical data	
Backing material	None	Peel adhesion	Steel (initial) 30 N/cm
Type of adhesive	Specialty		PE (initial) 13 N/cm
Color	White	Elongation at break	700 %
Thickness	500 µm	Temperature resistance (long term)	90 °C

Heat Activated Film (HAF®)

tesa HAF® is a thermosetting adhesive system, provides high structural bonding performance to a wide variety of substrates. An irreversible cross-linking reaction is initiated by heat and pressure starting at temperatures above 120°C, resulting in extremely strong bonds. The processing of these adhesive systems is simplified due to excellent die cuttability, immediate handling stability after activation, and low oozing.



Product group	tesa HAF® 94xx
Backing material	None
Type of adhesive	Nitrile rubber / phenolic resin
Color	Amber
Thickness variations	30 µm: 9405 60 µm: 9410 125 µm: 9402 200 µm: 9401



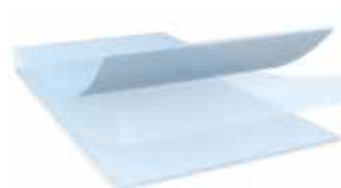
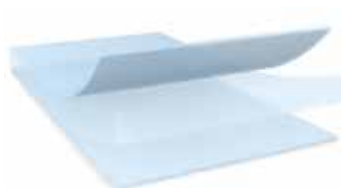
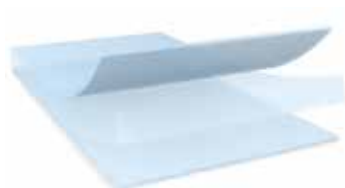
Optically Clear Adhesive (OCA)

tesa® 887xx

tesa® 880xx

tesa® 699xx

Product group



Backing material	None	None	None	
Type of adhesive	Acrylic	Acrylic	Acrylic	
Category	PSA	PSA	UV cure	
Color	Transparent	Transparent	Transparent	
Key characteristics	Superior gap compensation performance of glass covers in a thickness range up to 500µm	Best in class outgassing avoidance to enable optical integration behind plastic covers	UV cure feature enabling good ink step coverage and special curing through PC option	
Focus application	Glass substrate, L-size, Curved	Plastic substrate	Plastic curved display	
Thickness variation	200 µm: 88708 250 µm: 88710 300 µm: 88712 500 µm: 88720	150 µm: 88006 200 µm: 88008 250 µm: 88010 300 µm: 88012	50 µm: 69902 100 µm: 69904 150 µm: 69906 200 µm: 69908	
Reference product	88708	88008	69908	
Thickness	200 µm	200 µm	200 µm	
Peel adhesion¹	Glass	8.2 N/cm	7.6 N/cm	14.5 N/cm
	PC	—	7.1 N/cm	14.9 N/cm
Transmittance (380 - 780nm) >	99.5 %	99 %	99 %	
Refractive index	1.48	1.47	1.48	
Ink step coverage	● ● ●	● ●	● ● ●	
Outgassing resistance	●	● ● ● ●	● ● ● ●	
Curved application	● ● ● ●	● ● ●	● ● ● ●	



Cable Mounting Tape

Up to now, mainly hotmelt solutions have been used for mounting cable harnesses and other parts to the headliner. In collaboration with Bertrandt, a leading technology development service provider in the Automotive sector, tesa has refined the automated assembly of headliners in cars.



Product	tesa® 50400
Backing material	Non-woven
Type of adhesive	Waterborne acrylic
Color	Black
Thickness	350 µm

Technical data		
Peel adhesion	Steel (initial)	> 13 N/cm
	PET Fleece Headliner	> 10 N/cm
	PET Fleece Surface	> 10 N/cm
Elongation at break		35 %

Simple		Reduced cycle time By instant further processing without waiting
		Repositionability Of cable bundle during assembly
Reliable		Excellent bonding On rough and irregular headliner materials
		Eliminate NVH issues Elastic material will not break
Safe		No heating Designed to be applied in room temperature
		Low VOC product According to VDA 278



Available in spools for fully automated process and pancake rolls for manual applicators

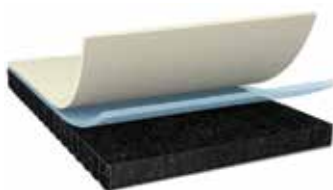
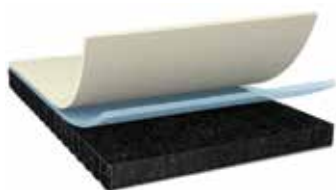
Noise-damping Tape

tesa® 60303 Ultra Low VOC

tesa® 60307 Ultra Low VOC

tesa® 60310 Ultra Low VOC

Product group



Backing material	PET fleece	PET fleece	PA velour
Type of adhesive	Acrylic	Acrylic	Acrylic
Color	Black	Black	Black
Thickness	230 µm	480 µm	525 µm
Log roll dimension	1140 mm x 200 m	1140 mm x 200 m	1140 mm x 200 m
Elongation at break	20 %	20 %	80 %
Tensile strength	35 N/cm	28 N/cm	150 N/cm
Abrasion resistance	Class A	Class C	Class D
Noise damping	Class C	Class D	Class E

Classification according to LV 312 standard

Abrasion resistance



Class	A	B	C	D	E	F
Number of strokes	< 100	100 - 499	500 - 999	1000 - 4999	5000 - 14999	15000 - 29999
Level of abrasion protection	—	Basic	Medium	High	Very high	Extremely high

Noise damping



Class	A	B	C	D	E
Attenuation dB	0 to ≤ 2	> 2 to ≤ 5	> 5 to ≤ 10	> 10 to ≤ 15	> 15
Level of noise cancelling	—	Basic	Medium	High	Very high

e-Powertrain

Accelerating battery production

Electrical insulation

Adhesive tapes with high breakdown voltage guarantee secure electrical insulation for highly automated production processes.

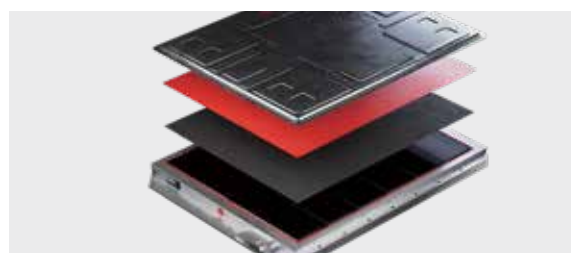


Area of application	tesa solution			
Cell wrapping	PET, PCR-PET*	Transparent, black, blue	58331, 58353, 58338, 58355, 58352, 58347, 58655	50 — 110 µm
Metal part insulation	PET, PCR-PET	Transparent, black, blue	58358, 58330, 58351, 58356, 58357, 58344	45 — 220 µm
In-cell	PET, PP	Blue	58337	35 — 45 µm

*PCR: post-consumer-recycled

Fire protection

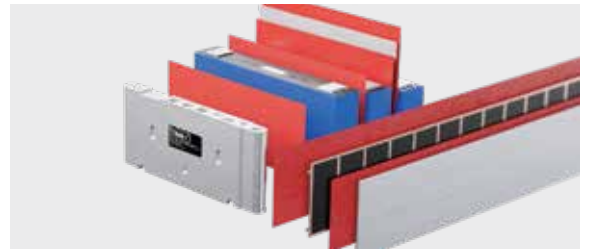
Whether a full solution including functional materials or the ideal adhesive solution: tesa offers products for any substrate, enabling fire protection and matching automotive safety requirements.



Area of application	tesa solution			
Lid protection	Siliconized glass-fibre	White	58311	1200 µm
Fire protection material mounting and encapsulation	PET	Transparent, white	58332, 58334, 58335, 58372, 58373, 58374, 58377	50 — 150 µm
Fireman access	Glassfiber, aluminium, PET	White	54485	9690 µm
Fire- and heat resistant hole covering patches	Aluminium laminated glass-cloth	Silver	54332	1010 µm

Mounting

Reliable and strong bonding over the entire vehicle lifetime can be combined with a debonding on demand function, enabling re-manufacturing and recycling.



Area of application	tesa solution			
FPC mounting	Non-woven	Transparent	8851, 8853, 8854, 8857	50 – 100 µm
Thermal management	No backing (transfer tapes)	White, transparent	60743, 60744, 58394, 58395, 58398, 58399	30 – 400 µm
Cell-to-cell and components mounting / Battery assembly	PET	Transparent	58323, 58360, 58362, 58363, 58364	50 – 200 µm

Venting

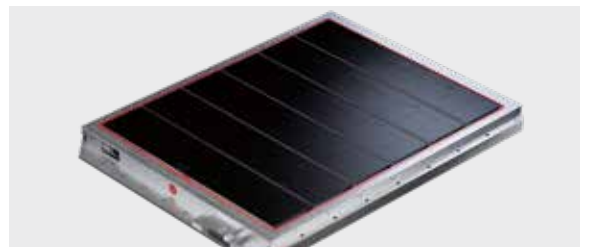
Reliable emergency degassing which enables automated application, whilst saving weight and space.



Area of application	tesa solution			
Battery pack and module venting	PCR-PET, aluminium	Silver, transparent	54112	< 400 µm

Sealing

Protection against moisture and corrosion over entire vehicle lifetime. Box and battery pack sealing also allows the re-opening for service and maintenance.



Area of application	tesa solution			
Box and battery pack sealing	Foamed acrylic	Deep black	76730	2800 µm
Hole sealing	Acrylic, PET	Transparent, grey, black	54348, 54336, 54349, 54335	90 µm – 1690 µm



Hole Covering

Adhearing instead of plugging



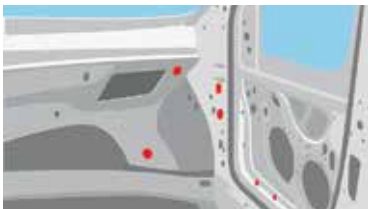
Process advantages through die-cuts

Our tailor-made hole covering solutions contribute towards weight reduction in the vehicle and also go a long way towards making your production more efficient, process securer and operator friendly. Process-specific delivery forms make the application of the die-cuts significantly easier than that of plugs.



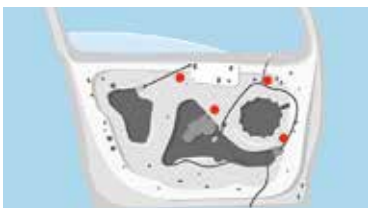
Easy application

tesa® 54657 can easily conform to complex surfaces or difficult-to-reach application areas where plugs are just not effective. Our cloth tapes are equipped with rubber-based adhesives which have a high-strength bond to a variety of substrates.




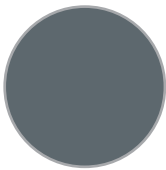
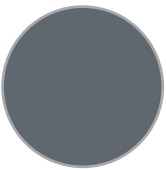
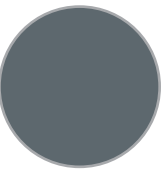
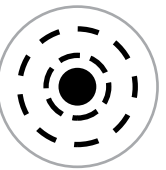
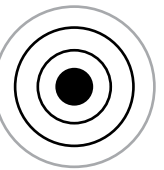
Acoustic insulation

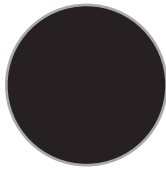
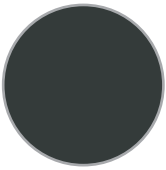


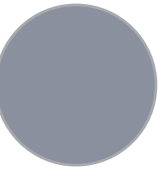
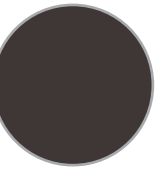
Primary applications for tesa® 54715 include hole cover applications that require excellent noise damping as well as sealing against humidity. The excellent acoustic-damping performance achieved is comparable with a close metal car body. An added benefit is the ability to be applied both pre-and post-paint cycle.



Air-tight and noise sealing

tesa® 54337 is a good sound damper in addition to having the ability to seal off holes form water and dust. Therefore, it is often used in hole covering applications that require flexibility and insulation properties.

	Battery		Exterior			
	tesa® 54332 FireGuard	tesa® 54335 PV0 PunctureGuard	tesa® 54335 PV1 PunctureGuard	tesa® 54335 PV2 PunctureGuard	tesa® 54339 Low VOC	tesa® 54349 90% PCR PET
Product						
Backing material	Aluminium laminated glasscloth	PET film	PET film	PET film	PET film	PET film
Type of adhesive	Modified acrylic	Modified acrylic	Modified acrylic	Modified acrylic	Acrylic	Modified acrylic
Thickness	1010 µm	990 µm	690 µm	1690 µm	260 µm	260 µm
Color	Silver	Gray	Gray	Gray	Transparent (target print possible)	Transparent (target print possible)
Adhesion to steel	22 N/cm	12 N/cm	-	12 N/cm	6.5 N/cm	10 N/cm
Puncture resistance	400 N	1000 N	1000 N	1000 N	730 N	880 N
Temperature resistance	200 °C	160 °C	160 °C	160 °C	160 °C	180 °C

	Interior					
	tesa® 54336 Interior Sealing Patch	tesa® 54337 Low VOC	tesa® 54338	tesa® 54348 90% PCR PET	tesa® 54657 Low VOC	tesa® 54715 Noise Blocker Standard
Product						
Backing material	PET film	PVC film	PET film	PET film	Acrylic-coated cloth	PO film
Type of adhesive	Modified acrylic	Acrylic	Modified acrylic	Modified acrylic	Natural rubber	Modified acrylic
Thickness	450 µm	450 µm	95 µm	95 µm	290 µm	1060 µm
Color	Black	Black	Transparent (target print possible)	Transparent (target print possible)	Gray	Gray
Adhesion to steel	19 N/cm	8 N/cm	4 N/cm	7 N/cm	6 N/cm	6 N/cm
Puncture resistance	440 N	470 N	600 N	650 N	350 N	120 N
Temperature resistance	190 °C	110 °C	160 °C	160 °C	180 °C	100 °C



Security Labeling

Process optimization using state-of-the-art laser technology

Vehicle Identification Numbers (VIN), certification, service, safety or warning and instruction information — a wide variety of marking systems are required throughout a vehicle. Some need to be completely tamper-proof, while others need to withstand extreme environmental conditions, such as in the engine compartment. We offer a comprehensive range of laser labels to meet all requirements, combining our knowledge of laser marking technologies with our expertise in self-adhesive films.



Warning and instruction labels

Tire pressure and fuel information, engine compartment service instructions, as well as airbag, engine and airconditioning warnings are only some examples of the wide range of labels in use throughout the vehicle. Our cross-linked acrylic label material is ideally suited for a long-lasting and highly resistant application.



Tamper evident features

Our laser labels are tamper evident; in the event of tampering, our laser labels are destroyed, leaving a visible trace. No transfer of the label is possible. It is used as an identification label throughout the life of the product and as a data carrier system for intelligent in-process control.



Maximize security with customer watermark and micro scripting

To maximize security, we offer customer specific watermark (logo design) with visible and hidden security features. Micro-scripting, hidden design is also available.

*UV footprint (on request)

A UV fluorescent adhesive permanently marks the substrate, leaving a detectable trace indicating label removal or tampering.

Standard Security Label

Product	tesa® 6930 PV3				tesa® 6930 PV6	tesa® 6930 PV8	
Backing material	Double-layered acrylic	Double-layered acrylic	Double-layered acrylic	Double-layered acrylic	Double-layered acrylic	Double-layered acrylic	
Type of adhesive	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic	
Thickness	95 µm	95 µm	110 µm	110 µm	140 µm	118 µm	
Custom logo and micro scripting	—	—	—	—	—	—	
Temperature resistance long term	120 °C	120 °C	120 °C	120 °C	120 °C	120 °C	
Color variation	Color code	04	28	35	34	04	08
	Top layer	Black	Black	Silver	Silver	Black	White
	Second layer	White	White	Black	Black	White	Black
	Surface	Glossy	Mat	Glossy	Mat	Glossy	Glossy

High-speed Security Label

Product	tesa® 6940 PV6		tesa® 6947 PV3		tesa® 6947 PV6		tesa® 6957 PV1		tesa® 6957 PV3	
Backing material	Double-layered acrylic		Double-layered acrylic		Double-layered acrylic		Double-layered acrylic		Double-layered acrylic	
Type of adhesive	Acrylic		Acrylic		Acrylic		Acrylic		Acrylic	
Thickness	140 µm		95 µm		140 µm		127 µm		95 µm	
Customer watermark and micro scripting	—		●		—		●		—	
Temperature resistance long term	120 °C		120 °C		120 °C		150 °C		150 °C	
Color variation	Color code	04	04	28	04	28	04	28	04	28
	Top layer	Black		Black	Black	Black	Black	Black	Black	Black
	Second layer	White		White	White	White	White	White	White	White
	Surface	Glossy		Glossy	Mat	Glossy	Mat	Glossy	Mat	Glossy



Masking

Enabling diverse design upgrades

The visual appeal of today's paint designs is an essential buying criteria for car drivers. Our comprehensive masking assortment support OEMs to create an accurate and unique look, while ensuring easy and lean paint shop processes. This helps OEMs to create a unique yet reproducible car design.



Two-tone fineline masking



Bumper masking



Flange masking



Repair masking



High-temperature car body masking



Available in Roll masker design (on request)

Filmic Masking Tape

Product	Backing material	Type of adhesive	Thickness	Color	Adhesion to steel	Temperature resistance
tesa® 4174	PVC film	Natural rubber	110 µm	Light green	3.7 N/cm	150 °C
tesa® 4185	PVC film	Natural rubber	100 µm	Blue	3.1 N/cm	160 °C
tesa® 4244 PV2	PVC film	Natural rubber	137 µm	Yellow	4.2 N/cm	140 °C
tesa® 7133	PP film	Natural rubber	80 µm	Blue	1.8 N/cm	120 °C
tesa® 7140 PVO	PVC film	Natural rubber	168 µm	Yellow	4 N/cm	170 °C
tesa® 50600 Standard	PETP film	Silicone	80 µm	Green translucent	4 N/cm	220 °C
tesa® 50650 Conformable	PETP film	Silicone	55 µm	Blue translucent	3.3 N/cm	220 °C
tesa® 50680	PETP film	Silicone	80 µm	Transparent	4 N/cm	220 °C
tesa® 50777	PVC film	Acrylic	132 µm	Blue	2 N/cm	160 °C
tesa® 51108	PET film	Natural rubber	54 µm	Milky white	3.3 N/cm	150 °C
tesa® 61124	PETP film	Silicone	60 µm	Blue translucent	3.5 N/cm	220 °C
tesa® 61128	PET film	Silicone	85 µm	White	4.3 N/cm	220 °C

Paper Masking Tape

Product	Backing material	Type of adhesive	Thickness	Color	Adhesion to steel	Temperature resistance
tesa® 4302	Slightly-creped paper	Natural rubber	170 µm	Brown	3.7 N/cm	150 °C
tesa® 4304	Slightly-creped paper	Natural rubber	180 µm	Brown	3.1 N/cm	160 °C
tesa® 4309 PV1	Slightly-creped paper	Natural rubber	170 µm	Brown	4.2 N/cm	140 °C
tesa® 4316 PV3	Slightly-creped paper	Natural rubber	140 µm	Milky white	4.6 N/cm	180 °C
tesa® 4317	Slightly-creped paper	Natural rubber	140 µm	Milky white	1.8 N/cm	120 °C
tesa® 4319	Highly-creped paper	Natural rubber	375 µm	Brown	4 N/cm	170 °C
tesa® 4328 / 4330	Slightly-creped paper	Natural rubber	175 µm	Black, Red, Blue, Yellow, Milky white	4 N/cm	220 °C
tesa® 4329 PV1	Slightly-creped paper	Natural rubber	125 µm	Milky white	3.3 N/cm	220 °C
tesa® 4341	Slightly-creped paper	Natural rubber	190 µm	Brown	2 N/cm	160 °C
tesa® 53123	Slightly-creped paper	Synthetic rubber	125 µm	Beige	3.3 N/cm	150 °C

Cloth Masking Tape

Product	Backing material	Type of adhesive	Thickness	Color	Adhesion to steel	Temperature resistance
tesa® 4657 PVO	Acrylic-coated cloth	Thermosetting natural rubber	290 µm	Black, Gray	4.6 N/cm	180 °C



Surface Protection

Perfect care for visible success

In a globalized world, protection films, pads, and car covers reduce the risk of damage in PEM logistics processes. These superior protection tapes result in less damage and meet the high expectations of car dealers around the globe. Our adhesive solutions provide resistance against climatic influences and keep freshly painted clear coats clean.



Filmic car body protection



Textile car body covering



Foam based bumper protection



Printed security sealing



Glass protection



Plastic protection



Parmanent paint protection



Alloy wheel protection

Product	Backing material	Type of adhesive	Thickness	Color	Adhesion to steel	Tensile strength
tesa® 4247 PV2	PVC film	Natural rubber	54 µm	Transparent	2.4 N/cm	47 N/cm
tesa® 4360	PE film	Acrylic	51 µm	Transparent	0.3 N/cm	13 N/cm
tesa® 4848 PV1	PE film	Acrylic	48 µm	Transparent	0.8 N/cm	12 N/cm
tesa® 7133	PP film	Natural rubber	80 µm	Blue	1.8 N/cm	133 N/cm
tesa® 50530 PV3	PO film	EVA	79 µm	White	0.9 N/cm	30 N/cm
tesa® 50535 PVO	PO film	EVA	59 µm	White	0.6 N/cm	24 N/cm
tesa® 50549 PV7	PO film	EVA	50 µm	White	0.6 N/cm	—
tesa® 50551	PE film	Acrylic	70 µm	Transparent	1.2 N/cm	11 N/cm
tesa® 51132	PE film	Acrylic	85 µm	Transparent	2.8 N/cm	15 N/cm
tesa® 51334	PE film	Acrylic	84 µm	Transparent	2.4 N/cm	15 N/cm
tesa® 51336 PVO	PE film	Acrylic	105 µm	Green translucent	2.4 N/cm	19 N/cm
tesa® 54994 PVO	PU film	Acrylic	260 µm	Transparent	7.5 N/cm	90 N/cm
tesa® 54995 PVO	PU film	Acrylic	280 µm	Transparent	13.5 N/cm	50 N/cm



Dispensers and Tools

Great tools for automization and handheld application

Even small adjustments in production can have a great impact on the efficiency and quality. We can offer a full range of automatic to handheld dispenser for a fast and convenient application. Our dispensers offer a high level of process stability and cost savings. We customize our applicators according to your specific needs to meet production process requirements.

Dispensers, cardy cuts, and squeegees are part of our complementary product range that helps line workers to enjoy workability for a better quality in operations.

Dispensers

We offer many options of dispensers from manual handheld devices to automatic devices to support and improve the efficiency and quality of the applications at our customers' production sites.



Tools

To better support the line workers in delivering better quality in the operation lines, we also offer complementary tools for tape positioning, tabbing, solutions, cutters, promotor applications and more.



Do not know which type of dispenser or is suitable?

If you do not find the right dispenser to enhance your production process, please contact us. Together we will find a suitable solution for you.

To learn more about our dispensers, visit our website:
www.tesa.com/en-sg/industry/general-applications/tape-dispensers



Global Presence

6
Regional
headquarters

Over **7,000**
products


Over **4,827**
employees

1
Global
headquarters

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

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Production and
converting centers

Located in

50
countries



70

Patent applications
annually

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Certifications

Our company is focused on international quality, environmental, and occupational safety standards.

Please find more information regarding our certifications at:
www.tesa.com/certifications



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