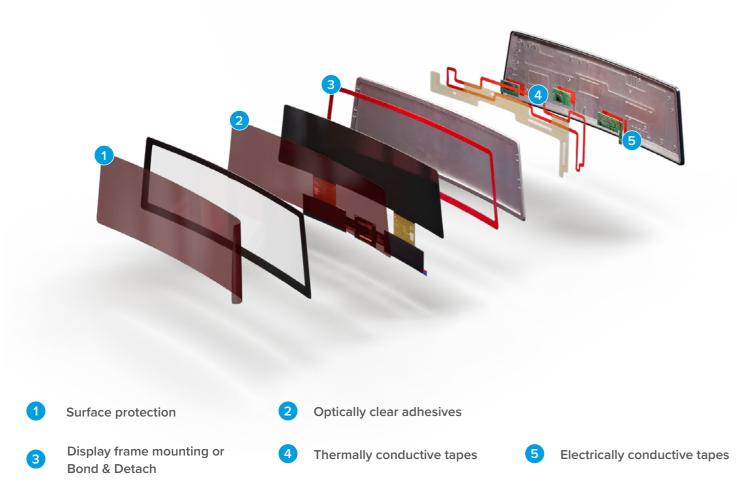


Adhesive solutions for new display designs

Your development partner for the future of connected automotive interiors

Are you shaping the future of Human Machine Interfaces (HMI) in the automotive sector and looking for a global partner who can support you with reliable, cost-effective, and contemporary products?

We enable reliable and efficient production processes for next generation HMI. Regardless of whether you're dealing with a large curved display, a head-up display, or a smart surface, we offer a variety of adhesive-tape solutions that will allow you to create the interior designs and shapes of the future. Our products are constantly adapted to new OEM requirements and trends. Take a look at the different applications we support.



Optical display integration

tesa's optically clear adhesives (OCA), designed for automotive applications, improve the light transmission, reduce reflection and improve shock absorption as well as stress relaxation. The result is a high quality, easy to read automotive display with sharp images. OCA can be used for various substrates like glass, plastics or decorative films.

tesa is your preferred partner if you want to further improve your display optical bonding process. We can bring our experienced engineers and partners together to consult you. With OCA tapes a fast and reliable production process is achievable, compared to liquid or hybrid alternatives. Especially when curved, not rectangular or seamlessly integrated displays are designed. Automotive display assemblers select

OCA because of the significantly reduced process complexity and the reduced number of process steps.

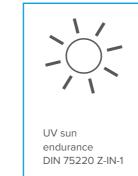
Our solution for integrating sensitive OLED displays is our OCA 88910. This OCA integrates a UV blocker additive, offering display protection against UV light while reducing the number of layers or process steps required to construct the display. This reduction results in financial and time savings, providing a more cost-effective solution for manufacturers

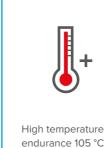


What are you looking for:

Product	tesa® 887xx	tesa® 880xx	tesa® 699xx	tesa® 889xx
Feature	Gap Filling	Outgassing resistance	Outgassing resistance	UV block
OCA Type	PSA	PSA	UV cure	PSA
Thicknesses [µm]	200, 250, 300 & 500	50, 100, 150, 200, 250 & 300	50, 100 & 150	250
Focus cover material	Glass	Plastics	Plastics	Glass
Focus display technology	LCD	LCD	LCD	OLED
Maximum display size	> 20° with 500 μm	12"	12"	18"
tesa® differentiation	Wide thickness range	Outgassing resistant	Outgassing resistant	Automotive standard with UV block feature

Our OCAs pass all crucial automotive environmental tests, like:





High temperature endurance 105 °C for min. 1000 h

High humidity 85 °C / 85 % r hum. for min. 1





Scan this code or klick **here** for further information

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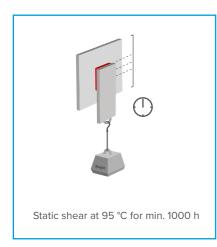
Human Machine Interface 3

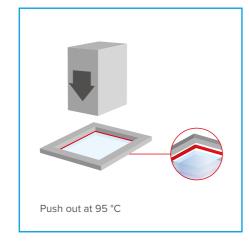
Tapes for secure mounting

Our automotive display mounting solutions are developed to meet the requirements of the next generation of automotive displays such as large and curved shapes and smartphone-like narrow edges and frames. This means that the mechanical load needs to be carried in a continuously smaller area under increasingly demanding environmental conditions. In response, we have developed a tape assortment tailored to the automotive safety requirements created out of PE foam and acrylic foam technologies.

Product	tesa® 78xx	tesa® 6105x	tesa® 707x	tesa® 625xx
Key characteristics	Approved in most OEM value chains with superior push out resistance	Allrounder with well-balanced performance profile	Excellent for zero slipping even at high temperature applications	Well-balanced alternative for small devices and high cap filling requirements
Focus application	Embedded display designs	Free floating display designs	Free floating display designs	Embedded display designs
Available thickness [µm]	500, 800, 1100, 1200, 1500 & 2000	300, 350 & 400	500, 1000 & 1500	500 & 800
Puch out resistance @ 95°	•••	••	••	••
Static shear resistance @ 95°	••	••	•••	•
Light blocking	Yes	Yes	No	No
Adhesive type	Acrylic foam	Acrylic foam	Acrylic foam	Acrylic foam

Our mounting tapes pass all crucial automotive environmental tests, like:







Debonding on demand

With tesa® Bond & Detach we ensure secure bonding over the lifetime of a car and make high-quality electronic components removable and therefore more sustainable. tesa® Bond & Detach is already being used successfully in over 2 billion smartphones. Now it is available for the automotive market enabling simple and residue free reworking of high value components. In addition we enable repairing and recycling with tesa® 76565.



Product	tesa® 7655x	tesa® 76565
Key characteristics	This Bond & Detach tape offers strong holding power together with easy rework feature	This Bond & Detach tape offers strong holding power and the opportunitiy for rework, reuse and recycling
Debondability	Rework	Rework, reuse, recycle
Thickness [µm]	250 & 500	500
Holding power hot	•••	••••
Aging stability	••	••••
Peel adhesion	••••	•••

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Grounding and shielding solutions

With more and more electrical devices being integrated in cars it is getting more challenging to ensure that the different units do not interfere with each other and additional hand-held devices. To guarantee the functionality of each component, we offer a wide range of electrically conductive tapes (ECT), enabling grounding and shielding solutions. When developing ECTs we can find the right trade-off between adhesive performance such as peel off force and the electrical conductivity for your task. Moreover, we can integrate special electrically conductive foams into the tape stack up, providing additional gap filling features.



Series	tesa® 6037x	tesa® 6025x	tesa® 6038x	tesa® 6036x
Feature	Excellent grounding performance at small bonding area	High adhesion level even at harsh environmental conditions	Good electrical conductivity and high bonding performance	Excellent grounding performance with high bonding strength
Available thickness [µm]	30, 50 & 100	55, 70, 200 & 250	50 & 100	50 & 100
Contact resistance [Ohm / inch ²]*	0.01	0.05	0.06	0.01
Adhesion to steel [N/cm]*	5.1	7.6	10	9
Color	Black	Gray	Gray	Gray

^{*} Reference IBNRs: 60371, 60251, 60381 & 6036

Thermal management

With the increasing amount of chips in smaller package spaces, the demand for easy-to-apply thermal management solutions has also increased. tesa® thermally conductive tapes set up a reliable heat transfer path when mounted between the heat source and heat sink.



Series	tesa® 6073x	tesa® 6074x	tesa® 5832x
Feature	Lamination/mounting, very good bonding/wetting, good conductivty	Lamination/mounting, very good bonding/wetting, good conductivty	Gap filling, great conductivity, very good electrical insulation
Available thickness [µm]	50	10, 30, 50 & 100	1200, 1500 & 2000
Thermal conductivity [W/mK]*	0.7	1.0	> 2.0
Thermal impedance [Kcm²/W]*	1.6 – 1.8	0.6 – 1.1	5.6 – 9.6
Peel adhesion to steel*	4.7	4.5	0.5

^{*} Reference IBNRs: 60732; 60745; 58326

Temporary surface protection

To ensure scratch free delivery of display components from supplier to end user, reliable surface protection is important. We offer a focus portfolio of transparent protection films that are easy to remove despite typical automative aging conditions

Product	tesa® 66514	tesa® 50551 PV1	tesa® 4848 PV1
Key characteristics	Premium display protection tape with excellent long-term aging stability and easy peeling	Excellent long-term aging stability and very low electrostatic properties	Surface protection standard tape for general purpose
Available thicknesses $[\mu m]$	40	70	48
Residue free removability after aging	Yes	Yes	Yes
Optical Properties after aging	••••	••••	•
Adhesion to glass [N/cm]	0.1	0.9	0.9
Electrostatic potential [kV]	< 6	< 2	< 5

All products are not produced under clean room conditions and do not have antistatic treatments. Test conditions for residue free removability after aging and optical properties after aging: 7d at RT, 300h at PV 1200 and ISO 4892-2.

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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

tesa SE

Phone: +49 40 88899 101 tesa.com/company/automotive