



OUR ELECTRONICS ASSORTMENT

Adhesive Solutions for the Electronics Industry 2019

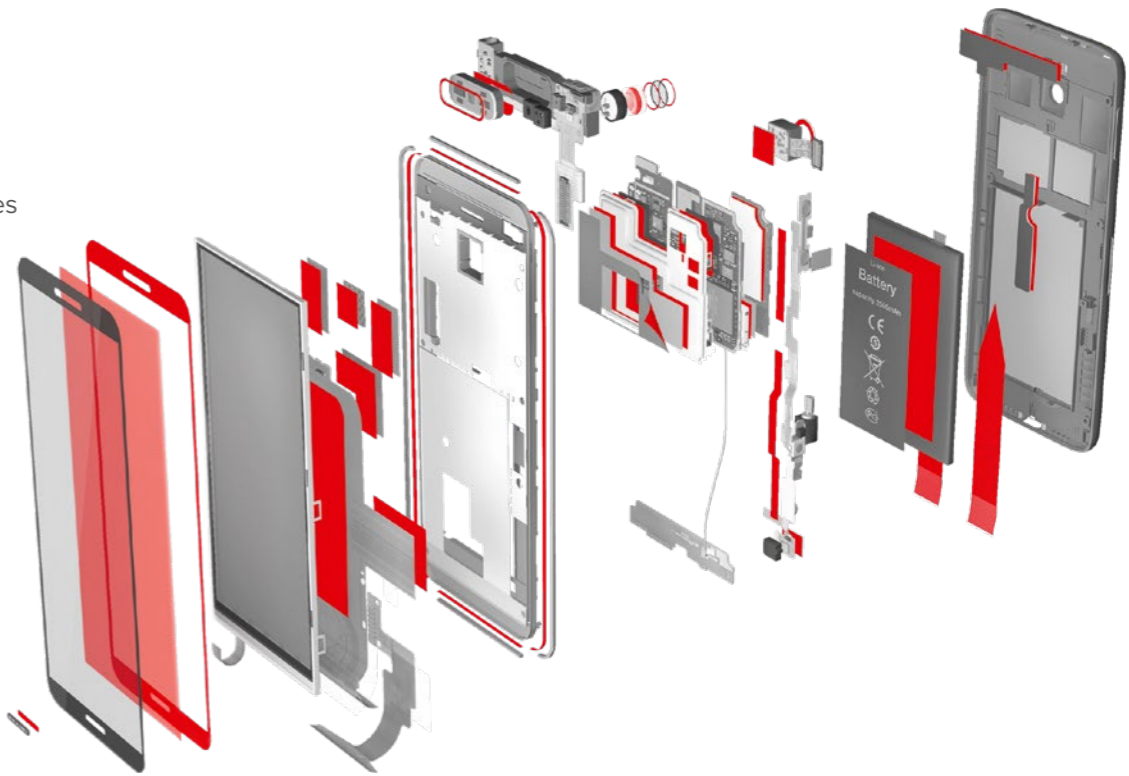


OUR DIVERSE ASSORTMENT

Solutions in Electronic Devices

Our sophisticated expertise in electronic device applications enables us to support you in a professional way and help you to select the best of our adhesive tape solutions. We offer a large assortment of adhesives, liners, and backings that meet a full range of bonding requirements and help to improve the overall performance of electronic devices.

Tape solutions for smartphones



ABOUT US

Qualified Experience and Individual Support

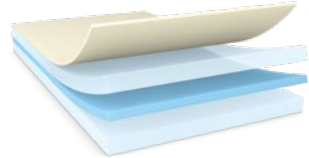
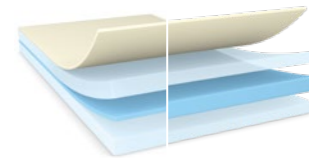
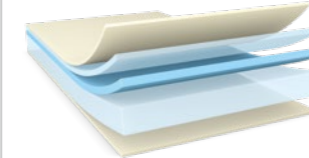
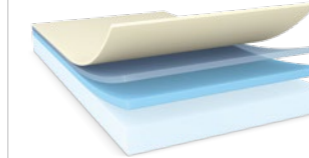
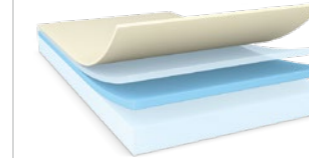
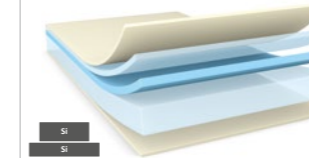

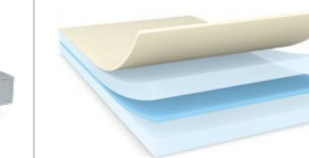


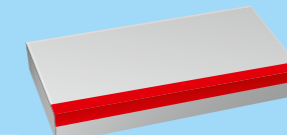
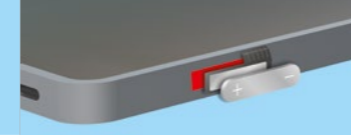
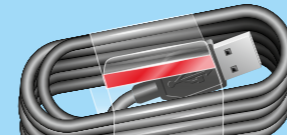

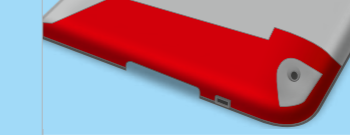

As a leading global manufacturer of adhesive solutions for the electronics industry, we offer a wide range of specially developed adhesive tapes for smartphones, tablets, and many other electronic devices. In this fast-moving business, it is necessary to keep up with the latest innovations. That is why we are continuously developing new products that will not only meet the demands of electronic devices, but also your individual technical needs.

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 Center, our technical experts evaluate your specific application needs under laboratory conditions. 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.

	Bendable		Light-blocking		Shock resistance z
	Chemical resistance		Moisture control		UV-curing
	Conductivity		Outgassing resistance		UV-blocking
	Encapsulation		Shock resistance xyz		Residue-free removable

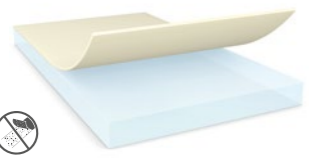
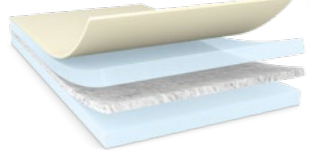
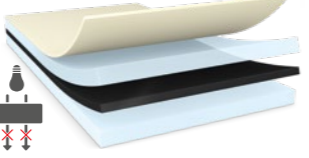
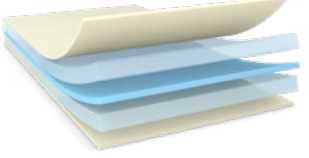
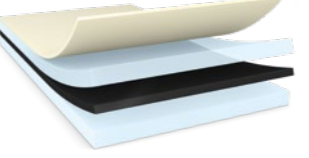
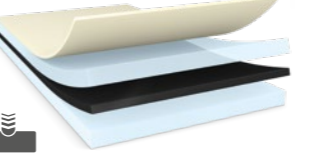
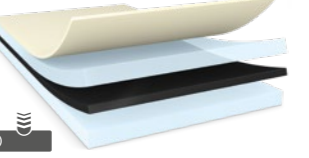
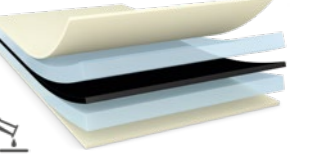
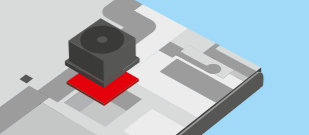
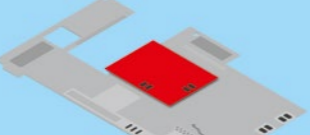
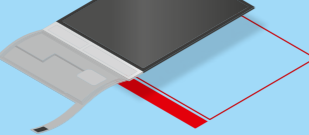
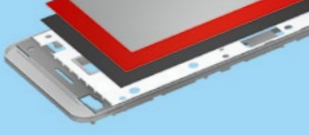


MOUNTING TAPES

Solutions for General and Demanding Applications

Product group description	Basic mounting tapes		Differential mounting tapes		Differential mounting tapes		Advanced mounting tapes		Product group description
	General	Standard	Anti-repulsion	Removable	Standard	Special (Silicone)	Anti-repulsion	Conformable	
									
	<p>Solutions for general mounting and lamination applications</p> <ul style="list-style-type: none"> • High adhesion level due to tackified acrylic adhesive • Good handling performance in converting process 	<p>Proven solutions for mounting and lamination applications</p> <ul style="list-style-type: none"> • Tackified acrylic adhesive with good initial tack and bonding performance • Transparent or black PET backing for easy handling during converting processes 	<p>Solutions for repulsion resistance</p> <ul style="list-style-type: none"> • Repulsion resistant adhesive on open side • High bonding strength due to tackified acrylic adhesive on permanent side • 62561: 45µm 	<p>Solutions for excellent removability</p> <ul style="list-style-type: none"> • Easy removability due to pure acrylic adhesive on removing side • High bonding strength due to tackified acrylic adhesive on permanent side • Transparent or black PET backing for tear resistance • 66505: ultra-removable 	<p>Solutions for optimized bonding performance on different substrates</p> <ul style="list-style-type: none"> • Different coating weight provides different adhesion levels on both sides • Transparent or black PET backing for easy handling during converting processes 	<p>Solutions for optimized bonding performance on silicone or silicone containing substrates</p> <ul style="list-style-type: none"> • Tapes with differential adhesive system (Silicone/Acrylic) • PET backing allows good handling performance in converting processes 	<p>Solutions for improved repulsion resistance</p> <ul style="list-style-type: none"> • Repulsion resistant adhesive • Transparent or black PET backing for easy converting processes • 6853x/6873x with higher tack • 689xx/669xx with superior repulsion resistance 	<p>Solutions for better wetting and increased adhesion at constant thickness</p> <ul style="list-style-type: none"> • Special tackified acrylic adhesive provides high bonding strength • Thin, conformable PET backing provides excellent conformability to uneven surfaces 	
Thickness cluster [µm]	5 10 20 25 30 40 50 60 70 80 100 120 130 140 150 160 170 180 190 200 220 250 300 350 400 500 650 700 >700								5 10 20 25 30 40 50 60 70 80 100 120 130 140 150 160 170 180 190 200 220 250 300 350 400 500 650 700 >700
	<ul style="list-style-type: none"> ○ 68546 ○ 68548 ○ 68549 ○ 68540 ● 68740 ○ 68542¹⁾ ● 68742 ○ 68545 ● 68745 ○ 68594 ● 68747 ○ 68595 ○ 68596 ○ 68597 ○ 68598 ○ 68599 	<ul style="list-style-type: none"> ○ 4912 ○ 4983¹⁾ ● 51983¹⁾ ○ 4972¹⁾ ● 51972¹⁾ ○ 4980¹⁾ ● 51980¹⁾ ○ 4982¹⁾ ● 51982¹⁾ ○ 4928¹⁾ ● 51928¹⁾ ○ 4942 ○ 4967¹⁾ ● 51967¹⁾ ○ 4965¹⁾ ● 51965¹⁾ ○ 4926 ● 51926 	<ul style="list-style-type: none"> ○ 62561 ○ 62562 	<ul style="list-style-type: none"> ○ 68560 ● 68760 ○ 62565 ○ 68562 ● 68762 ○ 66505 ○ 68565 ● 68765 ○ 68567 ● 68767 ○ 4720 	<ul style="list-style-type: none"> ○ 68582 ○ 68585 ● 68785 	<ul style="list-style-type: none"> ○ 61526 ○ 61532 ○ 61528 ○ 61529 	<ul style="list-style-type: none"> ○ 68530 ○ 68532 ● 68732 ○ 68905 ● 66905 ○ 68535 ● 68735 ○ 68537 ● 68737 ○ 68910 ● 66910 	<ul style="list-style-type: none"> ○ 68550 ○ 68551 ○ 68552¹⁾ 	
Application examples									
	<ul style="list-style-type: none"> • General mounting and lamination • Cushioning and gasket material bonding • Component mounting 	<ul style="list-style-type: none"> • Foam lamination • Mounting of components (e.g. speaker or receiver module) 	<ul style="list-style-type: none"> • Outer box wrapping 	<ul style="list-style-type: none"> • Sidekey FPC mounting • Temporary mounting prior to mechanical fixation • Sealing support for foam gaskets 	<ul style="list-style-type: none"> • Packaging of electronic devices • Speaker mesh mounting 	<ul style="list-style-type: none"> • Mounting on silicone or surfaces containing silicone (e.g. rubber foot, keypad) 	<ul style="list-style-type: none"> • Bonding on curved surfaces • Mounting of bent substrates • Antenna and FPC mounting 	<ul style="list-style-type: none"> • Demanding mounting applications where increased adhesion performance is necessary 	

MOUNTING TAPES

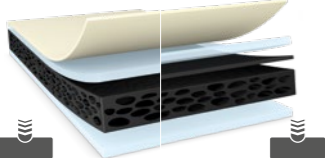
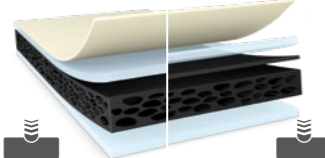
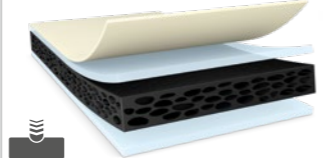
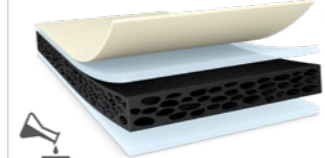
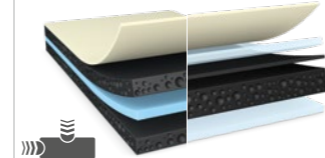
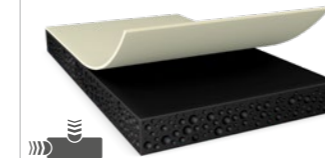
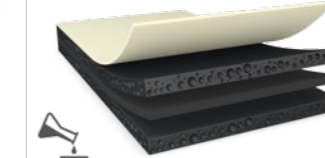
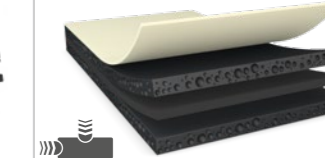
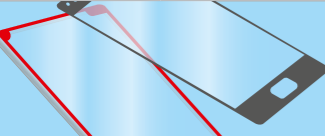

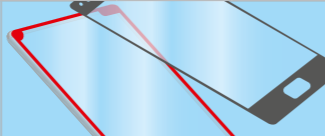

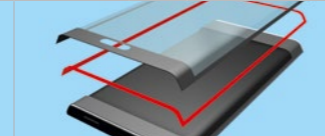


Solutions for Demanding Applications

Product group description	Advanced mounting tapes				Advanced mounting tapes				Product group description	
	Thin, high performance, and reworkable	Temperature resistant	Light-blocking		Display mounting	PET				
			Standard	Solid black		Highly transparent	High push-out	High shock		Shock and push-out
 <p>Solutions for outstanding removability of sensitive substrates</p> <ul style="list-style-type: none"> Special reworkable adhesive features permanent reworkability on various substrates High mounting performance on several substrates including low surface energy substrates 	 <p>Solutions for lamination with high temperature resistance</p> <ul style="list-style-type: none"> Special tackified acrylic adhesive ensures high tensile strength and stable holding power Translucent non-woven backing for excellent temperature resistance 8857: heat resistant liner 	 <p>Solutions for light-shading and blocking</p> <ul style="list-style-type: none"> Black/transparent tackified acrylic adhesive for very high bonding strength and shear resistance Good handling performance in converting processes due to PET film backing Good light-shading properties 	 <p>Solutions for highly transparent mounting and lamination</p> <ul style="list-style-type: none"> Tackified acrylic adhesive for a smooth and excellent transparent appearance Excellent handling performance in converting processes due to PET backing Double PET liner 	 <p>Solutions for high push-out performance</p> <ul style="list-style-type: none"> Tackified acrylic adhesive for high bonding strength and superior push-out performance Transparent or black PET backing for good handling performance in converting processes 	 <p>Solutions for high shock performance</p> <ul style="list-style-type: none"> High shock performance and good tack due to impact-resistant tackified adhesive Transparent or black PET backing for good handling performance in converting processes 	 <p>Solutions for strong shock and push-out performance</p> <ul style="list-style-type: none"> Shock and push-out resistance due to novel acrylic adhesive Good performance especially on LSE substrates Black PET backing allows easy detection or specific design purposes 	 <p>Solutions for chemical resistance requirements</p> <ul style="list-style-type: none"> Excellent resistance against polar and non-polar chemicals due to special chemical-resistant adhesive Black PET backing allows excellent converting performance 	<p>Thickener description</p>		
5									5	
10									10	
20									20	
25									25	
30	○ 63303	○ 8851		○ 68503					30	
40									40	
50	○ 63305	○ 8853 ○ 8857	● 7650	○ 68505	○ 61305	● 61350		● 61250	50	
60									60	
70									70	
80	○ 63308								80	
100		○ 8854			○ 61360	● 61365	○ 61760	● 61765	● 61865	100
120					○ 61370	● 61375	○ 61770	● 61775	● 61210	120
130									130	
140									140	
150					○ 61380	● 61385	○ 61780	● 61785	● 61885	150
160									160	
170									170	
180									180	
190									190	
200					○ 61390	● 61335	○ 61790	● 61795	● 61895	200
220						● 61395		● 61845	● 61220	220
250						● 61345		● 61825	● 61225	250
300						● 61325		● 61815	● 61230	300
350						● 61315				350
400										400
500										500
650										650
700										700
>700										>700
Application examples	 <ul style="list-style-type: none"> Challenging component mounting with the option to remove the parts without leaving any residues 	 <ul style="list-style-type: none"> Flexible printed circuit (FPC) mounting before SMT (reflow) Mounting of electronic components that are subjected to high temperature process 	 <ul style="list-style-type: none"> Mounting of LCD panel and backlight unit Light-blocking in displays and mobile phone applications 	 <ul style="list-style-type: none"> Lamination of FPC to rigid substrates Component mounting Reflector and optical sheet fixation 	 <ul style="list-style-type: none"> Demanding screen mounting and touch panel mounting applications in mobile phones and tablets Challenging component mounting in electronic devices where push-out and/or shock performance are required Mounting of batteries 	 <ul style="list-style-type: none"> Mounting of parts in electronic devices where chemical resistance is needed (e.g. side keys, earphones) Mounting of front or Backcover and sensors in wearable devices (e.g. smartwatch, wristband) 	Application examples			

○ Transparent ○ Translucent ● Black

MOUNTING TAPES

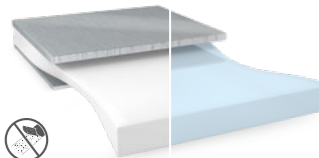
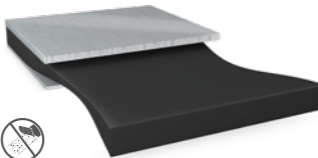
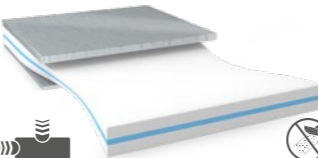
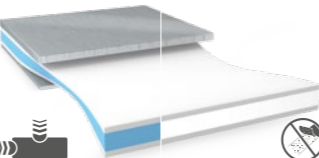
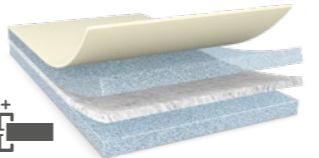
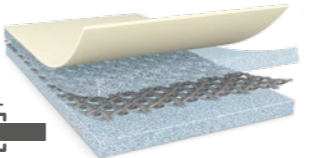
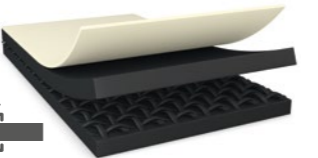
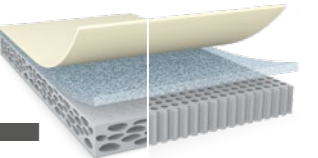
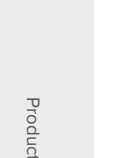
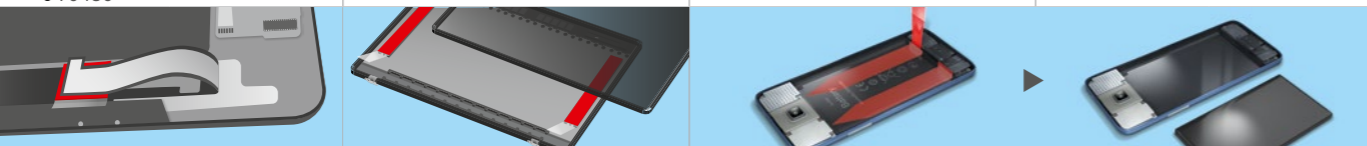
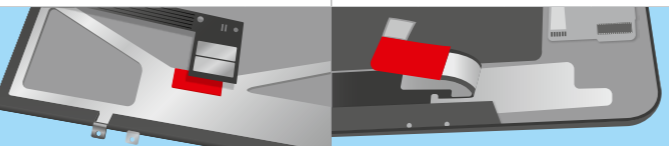

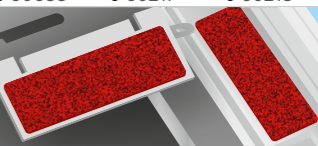
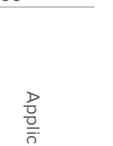
Solutions for Screen Mounting Applications Where High Shock Is Required

Product group description	Advanced mounting tapes				Advanced mounting tapes				Product group description
	PE foam				Acrylic foam		Synthetic foam		
	Standard	Conformable and high bonding	High shock and anti-repulsion	Chemical resistant	Reinforced	Flexible	Chemical resistant	Quick bonding and reworkable	
 <p>Solution for very good shock resistance and push-out performance</p> <ul style="list-style-type: none"> • Good shock and push-out performance due to special acrylic adhesive with PE foam backing • Good die-cutting and reworkability 	 <p>Solution for conformability and high bonding</p> <ul style="list-style-type: none"> • Very good bonding due to high-performance adhesive • Highly conformable foam backing provides excellent shock resistance • 6264x: Available with PET reinforcement for better die-cutting and reworkability 	 <p>Solutions for excellent shock resistance and anti-lifting</p> <ul style="list-style-type: none"> • Special adhesive prevent lifting • Black PE foam with excellent cushioning performance, sealing properties, and reworkability • 6286x: superior anti-lifting performance 	 <p>Solutions for chemical resistant requirements</p> <ul style="list-style-type: none"> • Excellent resistance against polar and non-polar chemicals due to special chemical resistant adhesive • Black PE foam with excellent sealing 	 <p>Solutions for superior shock and dynamic stress</p> <ul style="list-style-type: none"> • Excellent shock and bonding performance due to acrylic adhesive and cushioning foam • PET reinforcement allows good die-cutability, reworkability, and dimensional stability • 752xx: good shock, anti-repulsion 	 <p>Solutions for superior shock, conformability, and sealing abilities</p> <ul style="list-style-type: none"> • Excellent shock and bonding performance due to acrylic adhesive and cushioning foam • 756xx: superior bonding • 751xx: excellent impact resistance 	 <p>Solutions for chemical resistance and superior shock</p> <ul style="list-style-type: none"> • Excellent shock and bonding performance due to cushioning acrylic foam • Special adhesive: excellent resistance against sebum and other chemicals • PET reinforcement 	 <p>Solutions for superior shock, quick bonding and residue free removability</p> <ul style="list-style-type: none"> • Special adhesive allows fast and residue free removability • Designed for high tack and quick bonding • Excellent shock performance • High performance on LSE substrates 		
5									5
10									10
20									20
25									25
30									30
40									40
50						● 75405		● 76105	50
60									60
70									70
80									80
100					● 75710	● 75410	● 75910	● 76110	100
120									120
130									130
140									140
150		● 62622	● 66822		● 75715	● 75415	● 75915	● 76115	150
160									160
170									170
180									180
190									190
200	● 61644	● 62624	● 66824 ● 62864	● 66984	● 75720	● 75620 ● 75120	● 75920	● 76120	200
220									220
250	● 61645 ○ 61605	● 62625 ● 62645	● 66825 ○ 66865 ● 62865	● 66985	● 75725 ○ 75745	● 75625 ● 75125	● 75925	● 76125	250
300	● 61646	● 62626 ● 62646	● 66826 ○ 66866 ● 62866	● 66986	● 75730 ● 75230	● 75630 ● 75130	● 75930	● 76130	300
350					● 75735 ● 75235	● 75635	● 75935		350
400		● 62648	● 66828		● 75240	● 75640			400
500		○● 62932							500
650									650
700									700
>700									>700
Application examples	 <ul style="list-style-type: none"> • Touch panel and screen mounting applications in mobile phones and tablets • Mounting on uneven surfaces • Backcover mounting for mobile phones and other electronic devices 	 <ul style="list-style-type: none"> • Demanding touch panel and screen mounting applications • Mounting on uneven and curved surfaces • Mounting with ultra-slim die-cut design • Mounting for waterproof designs 	 <ul style="list-style-type: none"> • Touch panel and screen mounting application requiring sebum resistance • Mounting on uneven surfaces • Mounting for waterproof designs 	 <ul style="list-style-type: none"> • Lens, screen and touch panel mounting in mobile phones and tablets • Backcover mounting • Mounting with ultra-slim bezel design • Mounting for curved and waterproof designs 	 <ul style="list-style-type: none"> • Lens, screen and touch panel mounting in smartphones and tablets • Mounting of other parts where chemical resistance is needed (e.g. side key, fingerprint sensor) • Mounting of front or Backcover and sensors in smartwatches 	 <ul style="list-style-type: none"> • Backcover mounting in smartphones and tablets • Component mounting in electronic devices • Mounting of batteries 	 <ul style="list-style-type: none"> • Component mounting in electronic devices • Mounting of batteries 		

● Black ○ White

FUNCTIONAL TAPES

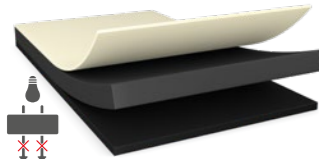
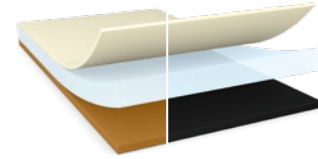
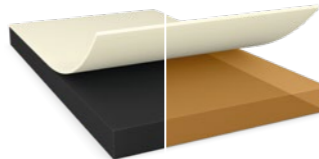
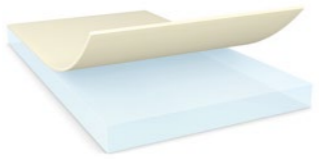
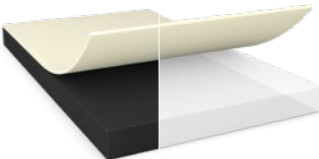
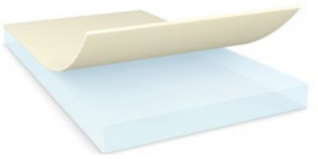
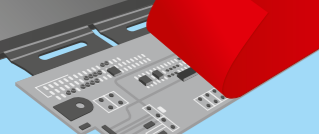
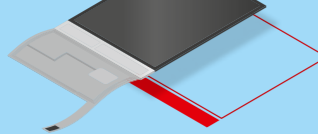
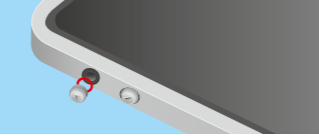



Solutions for Demanding Applications

		Bond & Detach				Electrical conductive tapes									
		Stretch-release tapes				Isotropically conductive XYZ direction									
		White	Transparent	Light-blocking	High shock	High shock and highly tear resistant	Non-woven	Woven	Single-sided matte black	Single-sided foam					
Product group description										Product group description					
	Stretch-release solutions for permanent bonding and residue-free detaching <ul style="list-style-type: none"> Standard Bond & Detach adhesive ensures high bonding strength Easy removability by longitudinal stretching 		Stretch-release solutions for permanent bonding and residue-free detaching <ul style="list-style-type: none"> Standard Bond & Detach adhesive ensures high bonding strength Easy removability by longitudinal stretching Solid black color design provides very good light-blocking 		Stretch-release solutions with high shock resistance <ul style="list-style-type: none"> Special cushioning adhesive allows outstanding shock resistance and high bonding strength Easy removability by longitudinal stretching 		Stretch-release solutions with high shock and high tear resistance <ul style="list-style-type: none"> Special cushioning adhesive allows outstanding shock resistance and high bonding strength Special backing provides outstanding tear resistance 64815: solid white color design for automated inline detection 		Solutions for grounding <ul style="list-style-type: none"> Electrically conductive adhesive Non-woven backing provides excellent conformability and adjustment to uneven surfaces 6038x: best bonding properties 60264: 17 µm ultra-thin 6037x: high electrical properties in xyz 		Solutions for grounding <ul style="list-style-type: none"> Electrically conductive adhesive Very good dimensional stability due to tear-resistant woven backing 60374: high electrical properties in xyz 6038x: best bonding properties 		Solutions for shielding and conductive covering <ul style="list-style-type: none"> Black electrically conductive adhesive Matte black coating with anti-fingerprint and solvent-resistant characteristic allows excellent EMI shielding 60238: high EMI shielding property 		Solutions for conductive gap-filling <ul style="list-style-type: none"> Electrical conductive adhesive Highly compressible and excellent recovery properties Excellent shock-absorbing and cushioning properties 6024x: perforated foam 6068x: ultra-soft foam
Thickness cluster [µm]	5											5			
	10						● 60264					10			
20												20			
25							● 60261					25			
30							● 60260 ● 60371					30			
40												40			
50							● 60262 ● 60372 ● 60295 ● 60382	● 60251 ● 60381 ● 60252				50			
60												60			
70								● 60253				70			
80					○ 67208							80			
100	○ 70410		● 70610		○ 67210	○ 77010	● 60385	● 60384 ● 60254 ● 60374				100			
120												120			
130												130			
140												140			
150	○ 70415	○ 70315	● 70615		○ 67215	○ 77015		● 60255				150			
160												160			
170												170			
180												180			
190												190			
200	○ 70420		● 70620					● 60256 ● 60276		● 60213		200			
220												220			
250	○ 70425		● 70625					● 60257				250			
300	○ 70430									● 60214	● 60246	300			
350	○ 70435											350			
400	○ 70440		● 70640									400			
500		○ 70350	● 70650							● 60685	● 60248	500			
650	○ 70465		● 70665									650			
700										● 60687	● 60249	700			
>700	○ 70480									● 60688 ● 60217 ● 60218		>700			
Application examples															
	<ul style="list-style-type: none"> Mounting of high value or critical components with easy and clean removability <ul style="list-style-type: none"> Battery mounting in mobile devices Removable mounting of devices or accessories Temporary fixation of components in production or transportation <p>tesa® Bond & Detach is the perfect solution for the mounting of batteries and other critical components, as it combines high bonding strength and easy removability during the product life cycle of an electronic device – from production process to recycling.</p>				<ul style="list-style-type: none"> FPC grounding PCB grounding 		<ul style="list-style-type: none"> FPC grounding PCB grounding 		<ul style="list-style-type: none"> EMI shielding Conductive covering 		<ul style="list-style-type: none"> FPC grounding PCB grounding Conductive gap-filling EMI shielding Cushioning and grounding 				

○ Transparent ○ Translucent ● Black ○ White ● Gray

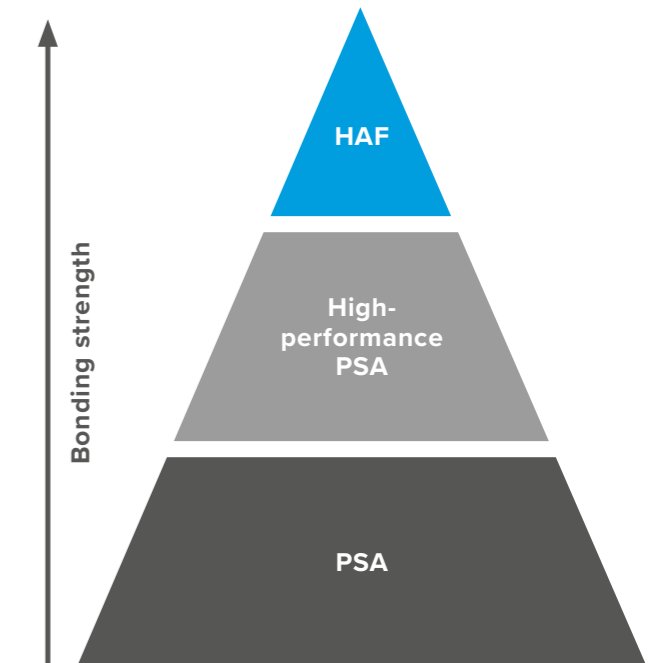
FUNCTIONAL TAPES

Solutions for Demanding Applications

Product group description	Covering tapes				Heat-Activated Films (HAF)			Product group description	
	Single-sided PET		Acrylic polyimide		Reactive HAF®	XPU (X-linkable PolyUrethane)	LTR (Low Temperature Reactive)		Thermoplastic
	Black	Matte black	Amber	Matte black					
 <p>Solutions for fixation, protection, and light-blocking</p> <ul style="list-style-type: none"> Acrylic adhesive allows high peel strength and shear resistance Very good light-blocking performance due to matte black PET backing 	 <p>Solutions for covering and wrapping</p> <ul style="list-style-type: none"> Repulsion-resistant adhesive Polyimide film backing allows very good chemical and temperature stability, good insulation resistance, and flame-retardant properties Very good scratch and fingerprint resistance 	 <p>Solutions for extremely strong bonds on slim bonding areas</p> <ul style="list-style-type: none"> Reactive adhesive allows superior chemical and heat resistance 5849x: PET backing for improved oozing behaviour and surface protection 	 <p>Solutions optimized for large bonding areas</p> <ul style="list-style-type: none"> Reactive adhesives offering elasticity after curing: optimized for large bonding areas and materials with different thermal expansion Provides high impact resistance Requires only low bonding pressure 	 <p>Solutions for extremely strong bonds on temperature-sensitive substrates</p> <ul style="list-style-type: none"> Reactive adhesive that is activated at low temperatures and pressure Provides high impact resistance 	 <p>Solutions for very strong bonds on large bonding areas</p> <ul style="list-style-type: none"> Thermoplastic adhesive Requires only low bonding pressure 8466 with non-woven backing 				
5	● 7905							5	
10	● 7910		● 67310	● 58469				10	
20	● 7920	● 66320 ²⁾	● 67320 ²⁾	● 58477				20	
25					● 58701	○ 8701		25	
30	● 7930	● 66330 ²⁾	● 67330	● 58471			○ 8711	30	
40								40	
50	● 7250	● 7950	● 66350 ²⁾	● 67350	● 58470			50	
60	● 7160						○ 8462	60	
70								70	
80	● 7180				● 58492			80	
100	● 7100				● 58473 ● 58493 ● 8473			100	
120					● 58474 ● 58491 ● 8474 ³⁾	● 58704	○ 8704	○ 8444	120
130					● 58475 ● 58495 ● 8475 ³⁾				130
140								140	
150					● 58476	● 8476		○ 8466	150
160									160
170									170
180									180
190									190
200					● 58478 ● 58498 ● 8478 ³⁾			● 58488	200
220									220
250									250
300								● 58489	300
350									350
400									400
500									500
650									650
700									700
>700									>700
Application examples	 <ul style="list-style-type: none"> Light shielding Electrical insulation Protection of components (e.g. graphite sheets) Fixation of cables or constructive parts in flat panel displays 	 <ul style="list-style-type: none"> Applications that require insulation properties and/or flame retardancy Protection of components (e.g. ferrite sheet) Battery edge wrapping 	 <ul style="list-style-type: none"> Structural bonding inside mobile devices Button fixation Speaker mesh bonding Mounting of decorative metal components FPC mounting 	 <ul style="list-style-type: none"> Structural bonding inside mobile devices Trackpad bonding Bonding of materials with different thermal expansion 	 <ul style="list-style-type: none"> Structural bonding of temperature-sensitive materials like plastics, fabrics, and leather Mounting of sensitive electronic parts 	 <ul style="list-style-type: none"> Mounting of decorative metal components Bonding of logo to housing Fabric bonding in accessories 	Application examples		

Heat-Activated Films in consumer electronics

Electronic devices are increasingly miniaturized and sophisticated. Complex designs require smaller bonding areas and higher tape performance. tesa Heat-Activated Film solutions meet the most challenging demands of manufacturers and consumers over the life cycle of the devices.



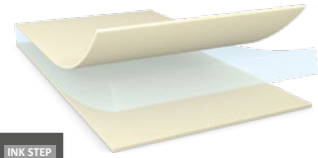
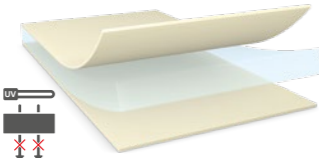
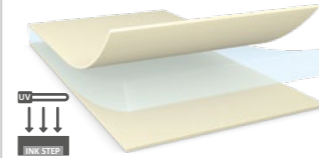
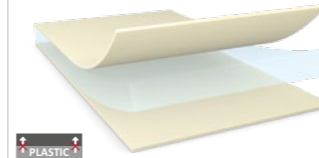
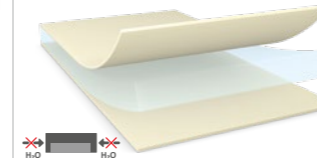
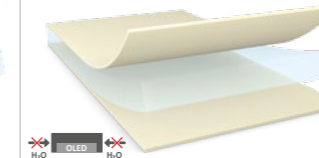
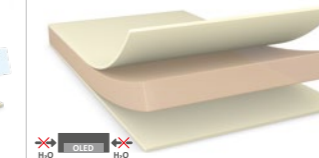
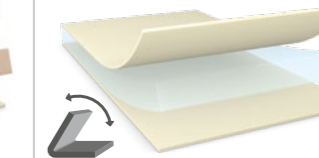
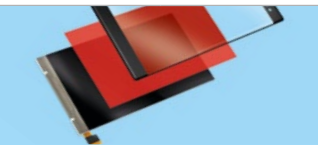
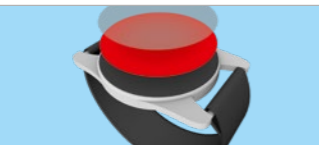
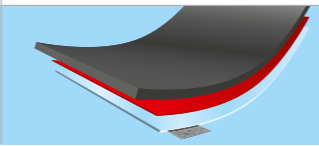

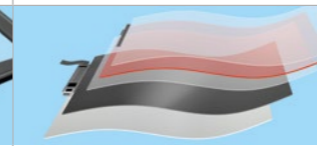
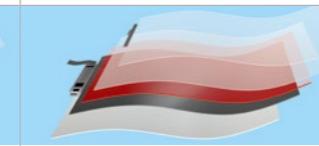


tesa HAF® key features

- Very high performance on a large variety of substrates
- Outstanding chemical, temperature and aging resistance
- Further processing immediately after bonding

UL ²⁾ UL file E203787 ³⁾ UL file E309290 ○ Transparent ● Black ○ White ● Amber

DISPLAY TAPES

Solutions for Optically Clear Applications

Product group description	Optically clear display tapes				Optically clear display tapes		Non-transparent display tapes	Special development	Product group description
	Standard	UV-blocking	UV-curable	Outgassing resistant	Moisture-controlling	Moisture-blocking UV-curable	Moisture-blocking	Foldable	
 <p>General solutions for optically clear lamination</p> <ul style="list-style-type: none"> Lamination of rigid/rigid or rigid/flex High bonding strength 	 <p>Solutions for optically clear lamination</p> <ul style="list-style-type: none"> Special adhesive provides UV protection for sensitive substrates Excellent temperature and humidity resistance 	 <p>Solutions for optically clear lamination</p> <ul style="list-style-type: none"> Lamination of rigid/rigid Very soft adhesive features easy lamination and excellent gap-filling UV curing after lamination 	 <p>Solutions for optically clear lamination for plastic substrates</p> <ul style="list-style-type: none"> Lamination of rigid/rigid or rigid/flex Special adhesive provides resistance against outgassing of plastic substrates UV curing after lamination 	 <p>Solutions for optically clear lamination of humidity-sensitive substrates</p> <ul style="list-style-type: none"> Low WVTR provides moisture control Low dielectric constant 	 <p>Solutions for optically clear lamination of highly sensitive substrates</p> <ul style="list-style-type: none"> Special adhesive provides moisture-blocking Excellent gap-filling and easy lamination due to softness of the adhesive UV curing after lamination 	 <p>Solutions for backside-encapsulation of highly sensitive materials</p> <ul style="list-style-type: none"> Special non-transparent adhesive provides superior moisture-blocking Pressure-sensitive adhesive features easy lamination 	 <p>Solutions for optically clear lamination of foldable devices</p> <ul style="list-style-type: none"> Lamination of flexible substrates Special adhesive provides high elasticity for bendable substrates 		
5									5
10									10
20									20
25	○ 69401		Upon request		○ 61562	○ 61500	● 61531		25
30									30
40									40
50	○ 69402	○ 69202	Upon request	○ 69802	○ 61563	○ 61501	● 61533		50
60									60
70					○ 61564				70
80									80
100	○ 69404	○ 69204	○ 69604	○ 69804					100
110									110
120									120
130	○ 69405		○ 69605						130
140									140
150	○ 69406	○ 69206	○ 69606	○ 69806					150
160									160
170									170
180			○ 69607						180
190									190
200	○ 69408	○ 69208	○ 69608	○ 69808					200
220									220
250	Upon request								250
300									300
400									400
500									500
650									650
700									700
>700									>700
Application examples	 <ul style="list-style-type: none"> Bonding of displays to cover glass or touch panels 	 <ul style="list-style-type: none"> Lamination of films to rigid substrates or lamination of two rigid substrates Bonding of displays to cover glass or touch panels where UV protection is needed 	 <ul style="list-style-type: none"> Bonding of displays to cover glass or touch panels with high ink steps 	 <ul style="list-style-type: none"> Bonding of displays to plastic covers 	 <ul style="list-style-type: none"> Lamination of films to rigid or flexible substrates Bonding of sensitive films, displays, or touch panels 	 <ul style="list-style-type: none"> Lamination of barrier films to rigid or flexible substrates Encapsulation of films, touch panels, or OLED displays 	 <ul style="list-style-type: none"> Rear-side encapsulation with lamination of rigid or flexible substrates Encapsulation of sensitive displays (e.g. OLED) Bonding of display rear side of the display to metal foil 	 <ul style="list-style-type: none"> Lamination of films to curved substrates or lamination of bendable devices Bonding of curved or bendable displays to flexible touch panels or display covers 	Application examples

○ Transparent ● Beige

OUR VALUE PROPOSITION

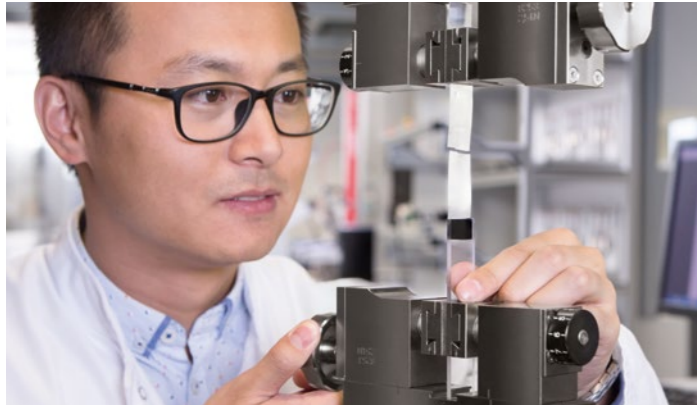
Solutions That Go Beyond Tape

Every project comes with new challenges especially when considering material inputs. We overcome these challenges by partnering with you to create unique and specialized product solutions that meet the demands of the electronic industry. Our competencies go beyond tape to offer a more comprehensive and technical product package.



Our Offering

Based on our vast experience and our excellent adhesive technology, we are experts in adhesive tape solutions for the electronic 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

Besides offering high quality products with the latest advanced technological solutions for many applications like component mounting, covering, lamination or encapsulation. 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 consultants and engineers are just one phone call away to support you with:

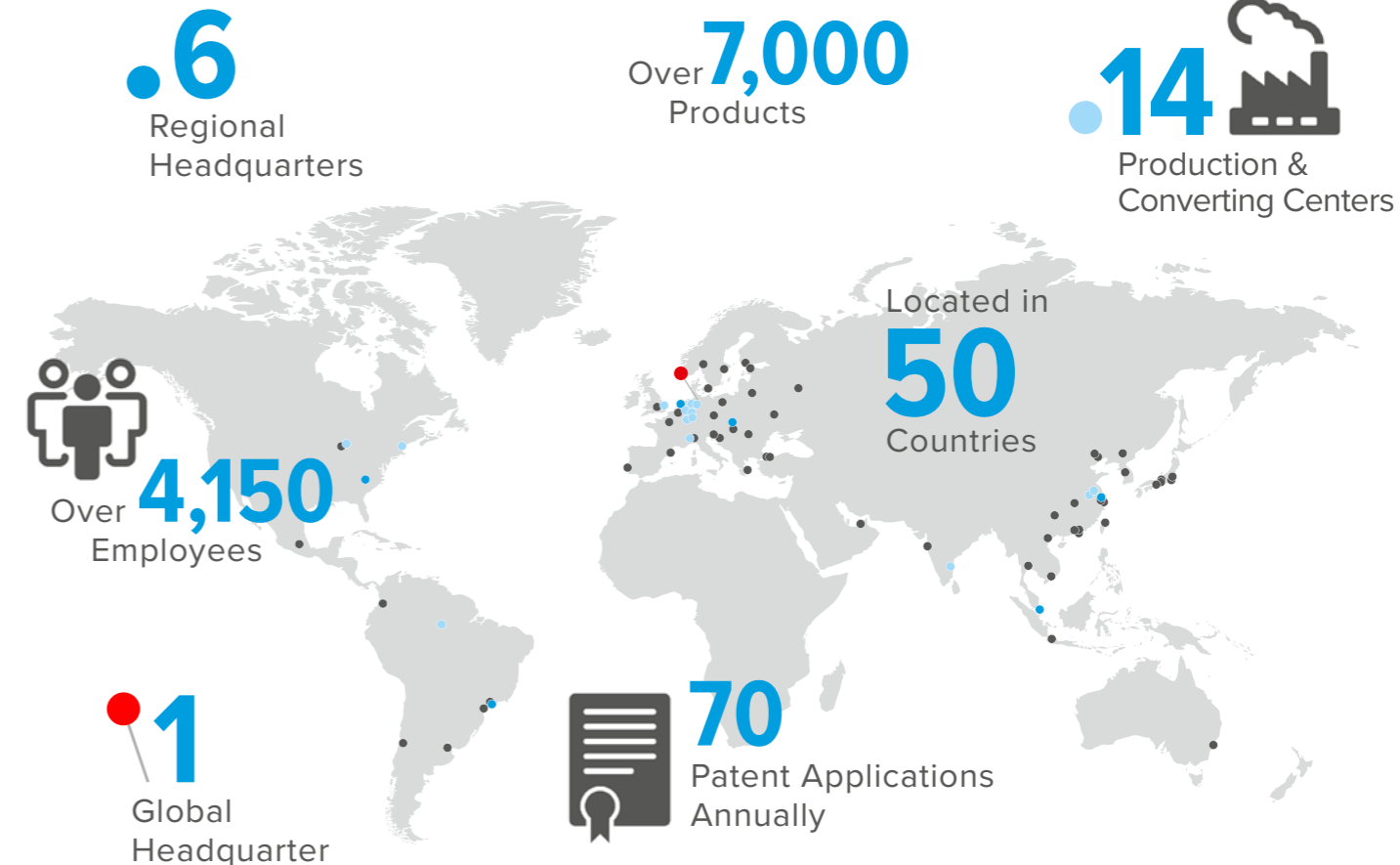
- Process-simulation studies
- Assistance at your manufacturing site
- State-of-the-art testing equipment
- Tests under a wide range of environmental conditions
- Customized tests with customer substrates

Contact us and benefit from a strong partnership.



WORLDWIDE PRESENCE

A Global Partner

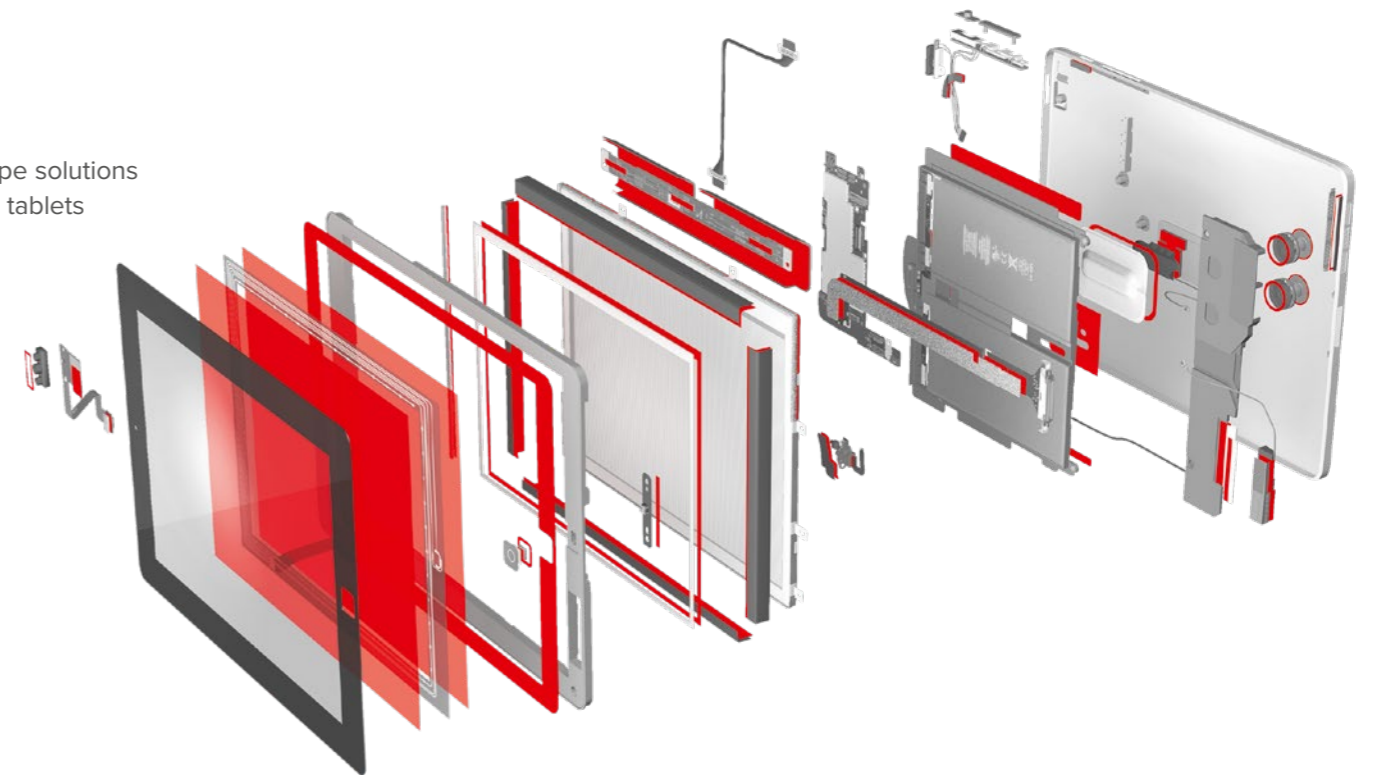
We are one of the leading global manufacturers of self-adhesive tapes. Our product solutions prove their performance in countless industrial sectors around the globe. Our sales offices, R&D centers, and production facilities offer worldwide support. Some of our key areas of focus include the automotive, electronics, public transportation, and aerospace sector.


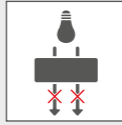



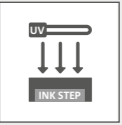
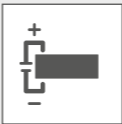

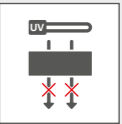
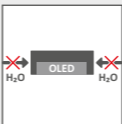




FEATURES AND BENEFITS

Layers	Features and benefits		
Backings/carriers			
PET		<ul style="list-style-type: none"> • Excellent dimensional stability and tear resistance • Precise die-cutting 	<ul style="list-style-type: none"> • Available in transparent, white, black, and solid black color
Foam		<ul style="list-style-type: none"> • PE and acrylic type • Very good sealing properties • High shock and tension absorption • Excellent leveraging of manufacturing tolerance 	<ul style="list-style-type: none"> • PET-film reinforcement optional • Available in low thicknesses to meet electronic designs
Non-woven		<ul style="list-style-type: none"> • Highly conformable and shock-absorbing • Good dimensional stability 	<ul style="list-style-type: none"> • Translucent
Electric conductive special		<ul style="list-style-type: none"> • Electrically conductive backings • Special foams 	<ul style="list-style-type: none"> • Non-woven, woven
Adhesives			
Tackified acrylic		<ul style="list-style-type: none"> • Well-balanced adhesive systems for general mounting and lamination applications 	<ul style="list-style-type: none"> • Excellent aging resistance
Pure acrylic		<ul style="list-style-type: none"> • High temperature resistance • Excellent shear resistance • High UV resistance 	<ul style="list-style-type: none"> • Very low VOC and corrosive ion content • Available versions: standard and optically clear
Heat-activated		Heat-activated adhesive systems for extremely strong bonds. Available versions: <ul style="list-style-type: none"> • Reactive adhesive with superior chemical and aging resistance • Reactive adhesive with superior shock resistance 	<ul style="list-style-type: none"> • Reactive adhesive activated at low temperature and pressure • Thermoplastic adhesive (noncuring)
Special		Available versions: <ul style="list-style-type: none"> • High shock- and push-out-resistant adhesives • Repulsion-resistant adhesive • Water-vapor-barrier adhesive 	<ul style="list-style-type: none"> • Silicone surface adhesive • Electrically conductive adhesive • Bond & Detach adhesive
Liners			
Glassine paper		<ul style="list-style-type: none"> • Paper liners with a thickness of 70 µm • Economical solution 	<ul style="list-style-type: none"> • Available in brown with blue tesa® logo and in white with red tesa® logo
PE-coated paper		<ul style="list-style-type: none"> • PE-coated paper liners with a thickness of 120–130 µm 	<ul style="list-style-type: none"> • Excellent humidity resistance • Available in white with blue tesa® logo
PET		<ul style="list-style-type: none"> • Filmic (PET) liners • Available in various thicknesses from 12–75 µm 	<ul style="list-style-type: none"> • Double-liner versions on request

Tape solutions for tablets



	Bendable		Light-blocking		Shock resistance z
	Chemical resistance		Moisture control		UV-curing
	Conductivity		Outgassing resistance		UV-blocking
	Encapsulation		Shock resistance xyz		Residue-free removable

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.



Our management system is certified according to the standards ISO 9001, IATF 16949, and ISO 14001.