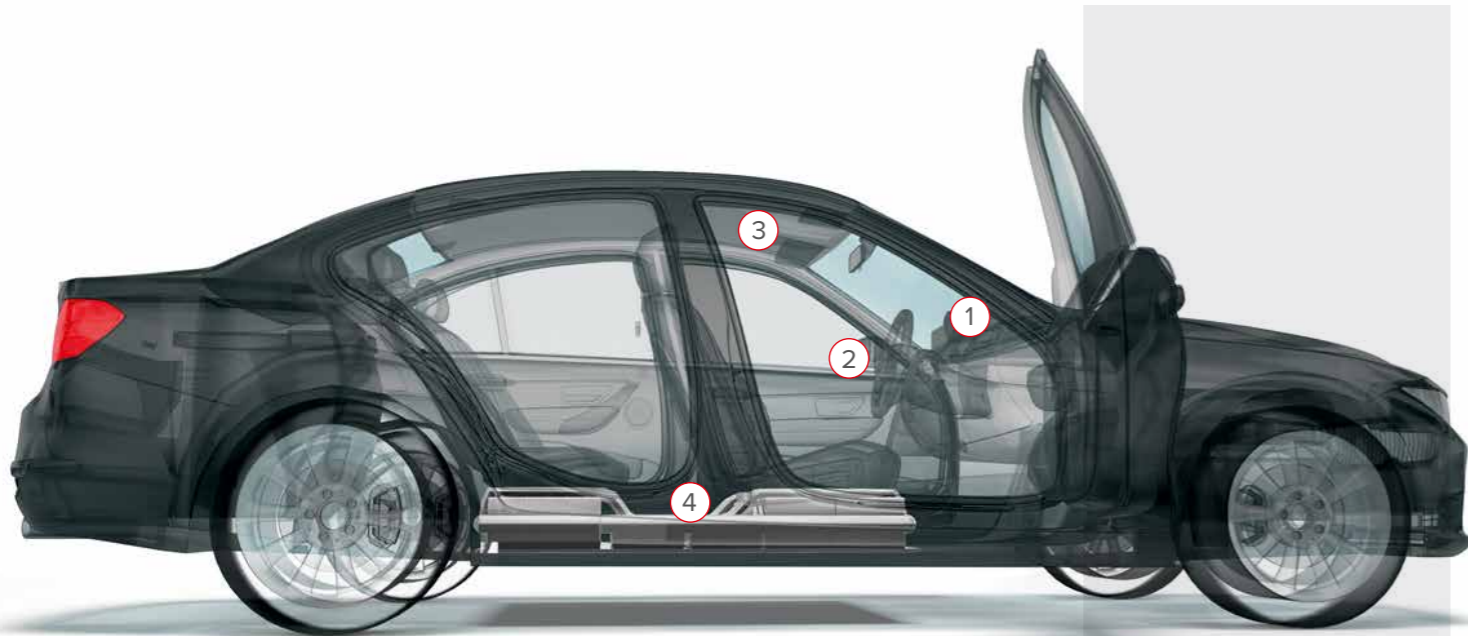




AUTOMOTIVE ELECTRONICS

Supporting the Automotive Future

EXPERIENCED PARTNER IN ADHESIVE TECHNOLOGIES



Global Support for Future Cars

1. Comfort and infotainment
2. Components for ADAS
3. Interior and exterior lighting
4. Batteries for e-mobility

As a leading global company for adhesive solutions, we combine our long-term experience in the automotive business with our broad know-how in electronics applications. We are a reliable partner for innovative adhesive solutions in automotive digitalization and environmentally friendly electrification.

Our tapes are specially made to fulfill demanding automotive requirements and serve an increasing number of important functions in addition to various mounting applications. As a certified company, we follow the TS 16949 and ISO 9001/14001 standards.

Our qualified experience comes with a deep understanding of applications, product values, and service. We run dedicated Application Solution Centers, in which we conduct critical tests for our tape solutions in your defined application. With our state-of-the-art equipment, we assure you that we follow all requested test methods to find the best possible solution.

Our worldwide presence, with sales offices and research and development facilities, ensures that we are close to our customers, to provide individual support and implement projects successfully.

Features and Benefits of Our Solutions

Adhesives

Tackified acrylic	<ul style="list-style-type: none"> Well-balanced adhesive systems for mounting and lamination with excellent aging resistance 	<ul style="list-style-type: none"> Special adhesives for advanced mounting applications Low-VOC adhesives
Pure acrylic	<ul style="list-style-type: none"> Excellent temperature and shear resistance Excellent UV resistance 	<ul style="list-style-type: none"> Low corrosive ion content Optically clear lamination tapes (optical bonding)
Heat activated	<ul style="list-style-type: none"> Superior chemical and aging resistance 	<ul style="list-style-type: none"> Reactive adhesive for structural bonding applications
Special	<ul style="list-style-type: none"> Highly shock-resistant adhesives Water vapor barrier adhesive 	<ul style="list-style-type: none"> LSE adhesive Electrically conductive adhesive Thermally conductive adhesive

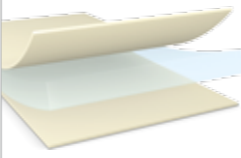

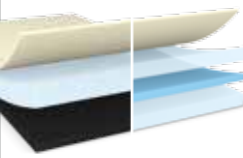

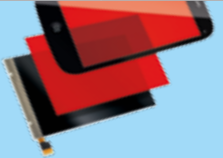
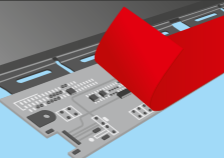
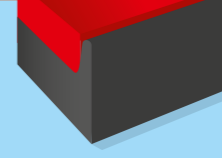
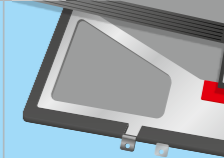
Backings/Carriers

Acrylic foam	 <ul style="list-style-type: none"> Black color PET reinforcement optional for improved handling 	<ul style="list-style-type: none"> High temperature and shear resistance to absorb physical stress Precise die-cutting Excellent shock resistance
PE/PU foam	 <ul style="list-style-type: none"> Black color Closed cell PE and PU foams PET film reinforcement optional for improved handling 	<ul style="list-style-type: none"> Excellent filling of larger gaps Very good sealing properties High shock and tension absorption
Filmic	 <ul style="list-style-type: none"> Transparent, white, black, and solid black color 	<ul style="list-style-type: none"> Excellent dimensional stability and tear resistance Precise die-cutting Excellent electrical insulation
Non-woven/Scrim	 <ul style="list-style-type: none"> Translucent non-woven and scrim backings Fleece carriers 	<ul style="list-style-type: none"> Highly conformable Good dimensional stability
Functional	 <ul style="list-style-type: none"> Electrically conductive backings Thermally conductive backings 	<ul style="list-style-type: none"> Excellent electrical conductivity Reliable thermal management

CORE ASSORTMENT






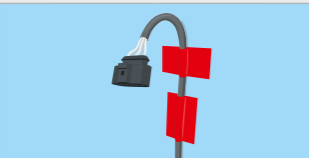
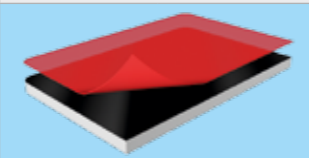

Additional Products, Thicknesses, and Colors Available: Talk to Us!

		Mounting Tapes				
		Standard filmic mounting	Advanced filmic mounting	Advanced non-filmic mounting	Superior mounting	Ultimate bonding with HAF
Product group description						
	Proven solutions for standard mounting and lamination applications <ul style="list-style-type: none"> Tackified acrylic adhesive Transparent and black PET backing White PP backing¹⁾ 	Solutions for special requirements <ul style="list-style-type: none"> Repulsion-resistant adhesive²⁾ Differential and removable solutions³⁾ 618xx series: high shock resistance 	Solutions for special requirements <ul style="list-style-type: none"> High-temperature-resistant products⁴⁾ Low-VOC versions with scrim backing⁵⁾ 	Solutions with superior shock absorbance and dynamic stress resistance <ul style="list-style-type: none"> Excellent vibration resistance in critical environmental conditions Viscoelastic core to compensate extreme physical stress PET reinforcement⁶⁾ 	Solutions for extremely strong bonds <ul style="list-style-type: none"> Reactive adhesive Superior chemical resistance 	
Thickness cluster [µm]	10	○ 68548				
	20					
	30		○ 68903 ²⁾			
	50	○ 4972 ● 51972		○ 68105 ⁴⁾ ○ 8853 ⁴⁾		
	60				● 9410	
	75			○ 75007 ⁵⁾		
	80	○ 4980 ● 51980	○ 68565 ³⁾			
	90					
	100	○ 4982 ● 51982	● 66910 ²⁾ ● 61865	○ 8854 ⁴⁾	● 75710 ⁶⁾	
	125	○ 4928 ● 51928				● 9402
	130			○ 75013 ⁵⁾		
	150		● 61885		● 75715 ⁶⁾	
	160	○ 4967 ● 51967		○ 4962		
	175					
	200	○ 4965 ● 51965	● 61895			● 9401
	225					
	240	○ 64993 ¹⁾				
	250				● 61054	
	270					● 9400
	300		● 61815		● 61055 ● 61057	
	350					
	400					
	500				● 7805	
	540					
	600					
	700					
	800				● 7808	
	1,000					
	1,200				● 7812	
Application examples						
	<ul style="list-style-type: none"> General mounting and lamination 	<ul style="list-style-type: none"> Bonding on curved surfaces Antenna mounting Applications with requirements on removability Component mounting 	<ul style="list-style-type: none"> FPC SMT mounting application before reflow Conformable mounting 	<ul style="list-style-type: none"> Demanding touch panel and display mounting applications with highest resistance to thermal and dynamic shock Mounting with ultra-slim die-cut design Mounting for waterproof designs 	<ul style="list-style-type: none"> Structural bonding of parts exposed to high shock Camera lens and bezel mounting Mounting of decorative metal components 	

		Functional Tapes				
		Optically clear lamination	Light blocking	Electrical insulation	Gap filling and cushioning	Grounding and shielding
Product group description						
	Solutions for optically clear lamination <ul style="list-style-type: none"> Optically clear pure acrylic adhesives Excellent suppression of delay bubbles, even in harsh environments Special versions with barrier function⁷⁾ 	Solutions for fixation, protection, and/or light blocking and mounting <ul style="list-style-type: none"> Acrylic adhesives (transparent or colored) PET backing (black or matte black printed) 	Solutions for covering and insulation <ul style="list-style-type: none"> s/s and d/s products with PI or PET backing Excellent electrical insulation properties Silicone adhesive with excellent temperature resistance⁸⁾ 	Solutions with conformable backings to compensate design tolerances <ul style="list-style-type: none"> Excellent sealing properties Special differential products⁹⁾ PU foam backing with good stress absorption¹⁰⁾ 	Solutions for grounding and shielding <ul style="list-style-type: none"> Excellent electrical conductivity in XYZ direction Versions with excellent shielding properties available Versatile aluminum tape for EMI shielding¹¹⁾ 	
Thickness cluster [µm]	10					
	20					
	30					
	50	○ 69402 ○ 61563 ⁷⁾	● 68830 ● 7250 (s/s) ● 68832	● 67330 (s/s) ● 67350 (s/s) ● 61124 (s/s) ⁹⁾		○ 60262 ● 60234 (s/s)
	60					
	75					○ 60253
	80					
	90					○ 50565 (s/s) ¹¹⁾ ○ 60254
	100	○ 69404	● 7100 (s/s)			
	125					
	130					
	150					
	160					
	175	○ 69607 ○ 69608				● 66720 ⁹⁾ ○ 60256
	200					
	225					
	250	○ 69510		● 61325 ○ 4926		
	270					
	300			● 61315		● 66826
	350					
	400					
	450					● 62904 ● 66740 ⁹⁾
	500					● 62852 ● 4976 ¹⁰⁾ ● 62906 ○ 60215 (s/s)
	540					
	600					
	700					
	800					● 62854
	1,000					○ 60216 (s/s)
	1,200					● 62856
Application examples						
	<ul style="list-style-type: none"> Lamination of two rigid substrates Bonding of rigid touch panels to cover lens Bonding of displays to cover lens or touch panels 	<ul style="list-style-type: none"> Mounting of LCD panel and backlight unit Light blocking in displays PCB covering 	<ul style="list-style-type: none"> Battery cell insulation Battery cell fixation 	<ul style="list-style-type: none"> Mounting of uneven and curved surfaces Sealing applications Mounting of LCD panels and backlight unit with removable foam 	<ul style="list-style-type: none"> FPC grounding PCB grounding EMI shielding 	

COMPLETE PACKAGE

Additional Products, Thicknesses, and Colors Available: Talk to Us!

		Protection Tapes			
		Tamperproof identification	Damping and fixation	Surface protection and masking	Wire harnessing
Product group description					
	Labels for tamperproof identification <ul style="list-style-type: none"> Laser-engravable s/s multilayer backing Especially durable adhesive: not removable without destruction of the label Customized microscripting Brand protection technologies, e.g. tesa PrioSpot® 	Solutions for noise prevention and cable fixation <ul style="list-style-type: none"> s/s thick PET fleece tapes with excellent damping properties¹²⁾ s/s PE-UHMW backing¹³⁾ Repulsion-resistant and low-VOC adhesives 	Solutions for temporary protection of high-grade surfaces <ul style="list-style-type: none"> s/s flexible film UV-resistant adhesive High transparency For polar and nonpolar substrates Temporary masking during production¹⁴⁾ 	Solutions for bundling and protecting wire harnesses <ul style="list-style-type: none"> Noise protection Radiant heat protection Abrasion protection Electrical insulation Marking of high-voltage cables¹⁵⁾ 	
Thickness cluster [µm]	25			○ 4848	○ 50560
	50			○ 50550	
	75				
	100	● 6930	● 6937	○ 51207 ¹³⁾	
	110				● 4174 ¹⁴⁾
	125				
	150				
	175				
	200				
	250		● 60608PV1 ¹²⁾		● 68000 PV01
	260				● 51026 PV6
280				● 51036 ¹⁵⁾	
500				● 51608	
540		● ○ 50118PV1 ¹²⁾			
600					
700					
800		● 60606PV1 ¹²⁾		● 51606	
900					
Application examples					
	Tamperproof encoding	Mounting on curved and bent substrates Secure cable mounting	Invisible and conformable surface protection on 3-D geometries Prevention of dust and damage on sensitive surfaces	Cable insulation/harnessing and protection against abrasion	

● Black ● Yellow ● Orange ● Gray ○ White ○ Transparent or translucent

Customized application and on-site support



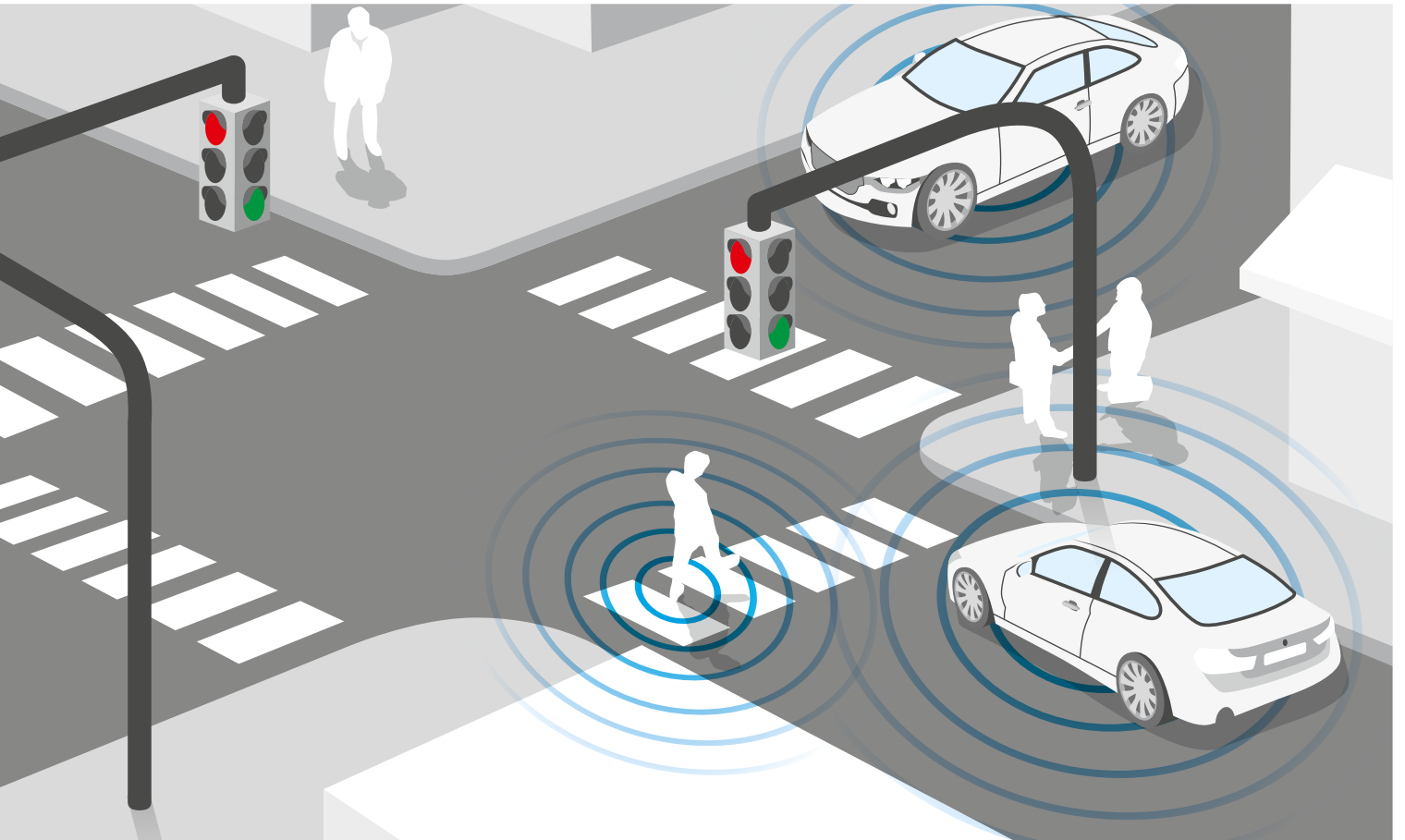
It is our business to support you and your products during the entire product development process on a daily basis. Our numerous sales offices, our research and development department, and our production facilities offer worldwide assistance. At the Application Solution Center, our technical experts 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 help you find the best possible solution.

Efficiency through automation



We are solution-oriented and strive to make your processes even better. Die-cuts are the perfect solution when you want to automate your application process. We offer a full range of dispensers for 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.

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, ISO/TS 16949, and ISO 14001. All our products delivered to automotive customers are listed in the International Material Data System (IMDS).