

1. Motor
2. Clutch
3. Transmission
4. Battery
5. Brake

ADHESIVE SOLUTIONS FOR AUTOMOTIVE POWERTRAINS

Our Complete Package from Permanent Bonding to Wrapping

The trend towards the reduction of emissions and fuel consumption as well as the customers' expectation for better performance creates new challenges for the design of automotive powertrains. To make sure every demand is met, we specifically develop self-adhesive tape solutions for powertrain applications.

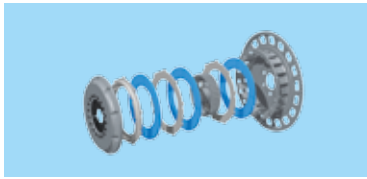
It is our business to support you during the entire product development process on a daily basis. We put you and your suppliers first by giving you the individual attention and service you deserve.

Our **tapes** are suited to high performance applications inside **car powertrains**. Benefits of our system solutions include:

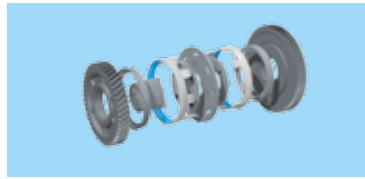
- Permanent bonding of friction material to clutch discs in clutches and to synchronizer rings for manual and dual-clutch transmissions
- Permanent mounting of sensor plates for the gear control in semiautomatic transmissions
- Mounting of brake shims for disc brakes
- Mounting of magnets to rotors for electric motors
- Permanent mounting of battery cells, insulation sheets, and cables
- Full wrapping of battery cells and blocks
- Tamperproof encoding of battery blocks by high-precision laser marking

Always
the Right
Solution

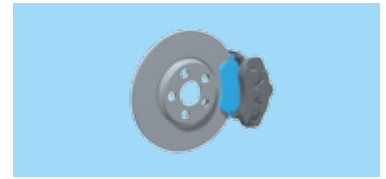
Application and Product Overview



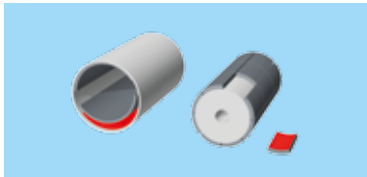
Permanent bonding of friction material to clutch discs



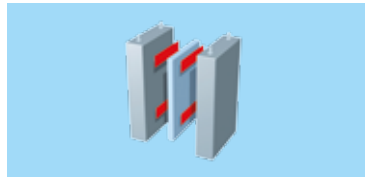
Permanent bonding of friction material to synchronizer rings



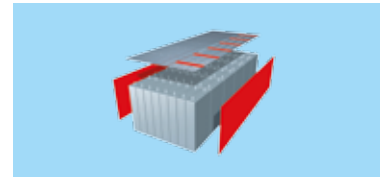
Mounting of brake shims for disc brakes



Mounting of magnets to rotors



Permanent mounting of battery cells and insulation sheets



Wrapping of battery cells and blocks

	Feature	Benefit	Components
Ensured lifelong mounting and bonding			
tesa® 8405 8410	<ul style="list-style-type: none"> Heat-activated reactive film 	<ul style="list-style-type: none"> Strong and reliable bond, resistant to high and low temperatures, resistant to chemicals 	<ul style="list-style-type: none"> Transmission Electric motor Brakes
tesa® 4943	<ul style="list-style-type: none"> Acrylic adhesive 	<ul style="list-style-type: none"> Good damping properties 	<ul style="list-style-type: none"> Brakes
tesa® 6854X 51966 61315	<ul style="list-style-type: none"> PET backing Acrylic adhesive 	<ul style="list-style-type: none"> Insulation properties for voltage breakdown Long-lasting, secure mounting Temperature resistant 	<ul style="list-style-type: none"> Battery insulation sheet Battery cell
tesa® 66350 58420 54339	<ul style="list-style-type: none"> PET backing Acrylic adhesive 	<ul style="list-style-type: none"> Insulation properties for voltage breakdown Long-lasting, secure mounting Temperature resistant 	<ul style="list-style-type: none"> Battery cell Battery block
Secured bundling and mounting			
tesa® 50118 50204	<ul style="list-style-type: none"> Acrylic adhesive 	<ul style="list-style-type: none"> Conformability Long-lasting, secure mounting Flammability FMVSS 302 	<ul style="list-style-type: none"> Battery cables
tesa® 4289	<ul style="list-style-type: none"> MOPP backing Acrylic adhesive 	<ul style="list-style-type: none"> Very high tensile strength Long-lasting, secure mounting 	<ul style="list-style-type: none"> Battery block
Tamperproof identification by laser marking			
tesa® 6930 6937	<ul style="list-style-type: none"> Individually laser-engravable backing 	<ul style="list-style-type: none"> Tamper evidence UV footprint on request 	<ul style="list-style-type: none"> Battery block

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.