



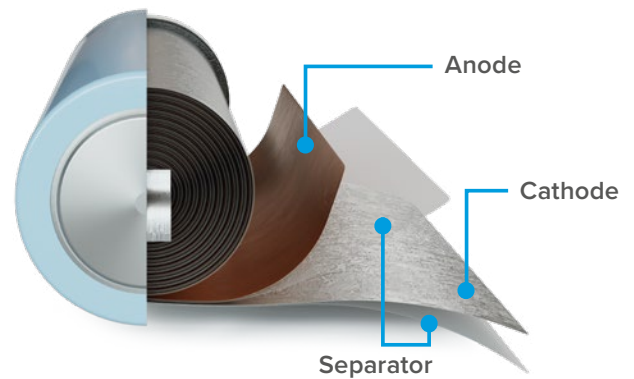
Splicing tape solutions for separator film, anode and cathode production



Tailor-made solutions for battery splicing

Your partner for reliable splicing solutions

Increasing requirements on product quality and production efficiency call for a reliable partner during battery cell manufacturing processes. With over 125 years of experience as a global supplier of adhesive solutions and as the inventors of tesa® EasySplice for integrated flying splice applications, we are your reliable partner. In order to achieve the desired levels of efficiency, it is essential that production machines operate at the highest possible speed with no splice failures and downtime.



Increased efficiency during battery cell production process

The production of batteries is a complex process involving several steps. At tesa, we are highly experienced with processing a wide range of materials such as films and coated metal foils. Our tapes are manufactured with premium quality and sustainable materials to ensure optimal splice performance and reliability in your separator film production, electrode coating, calendaring, notching, and stacking.



Fast and easy preparation with tesa splicing solutions



Save time

Fast and efficient manual or robotic preparation of splicing tape tailored to your process requirements.



Accelerate high-end production:

Run even difficult to splice substrates at high speeds.



Reduce failures

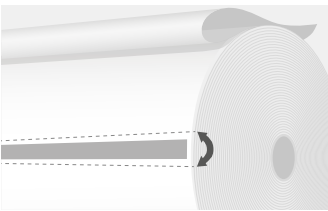
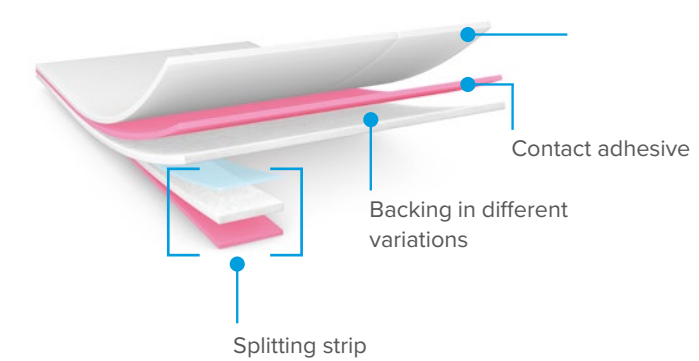
Higher splice performance means less costly failures. tesa's splicing solutions ensure safe closure of reels during acceleration and precise opening after contact.



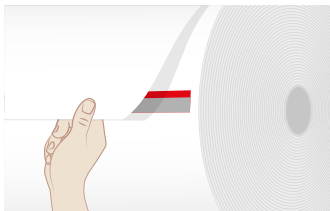
If you like to have further information scan or click this QR-code

tesa® EasySplice FilmLine

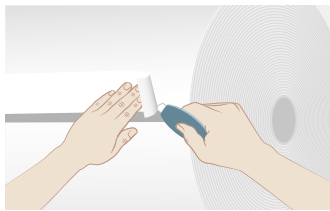
With the invention of tesa® EasySplice, we revolutionized paper and film production as well as converting industry processes. Reliable splicing at the highest speeds combined with easy and fast job preparation was made possible, resulting in maximized process efficiency. Our tesa® EasySplice FilmLine assortment is specifically developed for film and battery cell manufacturers. The combination of tailored contact adhesives, reliable splitting strip solutions, and distinct product backings provides outstanding splice performance even on critical non-polar film materials.



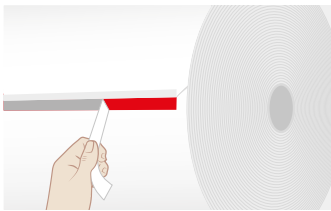
Underneath
Apply the tape under the top layer of the film reel. Then remove the upper part of the liner.



On top
Attach the top layer onto the exposed adhesive of the tape.



Remove
Tear off the excess film following the line of the remaining section of the liner.



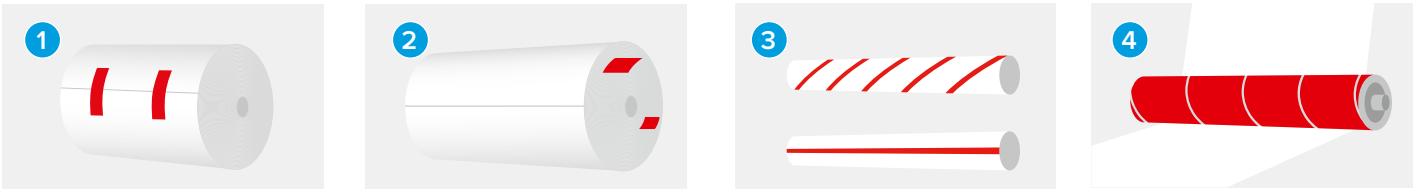
Finish
Before accelerating the reel carefully remove the lower part of the liner.



tesa® EasySplice FilmLine assortment

Product	Backing	Color	Tack	Thickness w/o liner [µm/mil]	Adhesion	Shear resistance	Hand tearable	Tensile strength [N/cm]
tesa® EasySplice 51918 FilmLine Black S	PET	●	...	105/4.1	...	...	No	70
tesa® EasySplice 51938 FilmLine Black	PETP	●	...	105/4.1	...	...	No	70

Complementary tapes

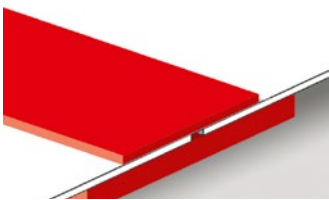


	Tape description	Thickness [µm/mil]	Adhesive	Backing	Color
1 End tabbing					
tesa® 4124	Single-sided tape	65/2.6	Natural rubber	PVC	
tesa® 60404	Colored single-sided tape	67/2.6	Natural rubber	PVC	
2 Failure flagging					
tesa® 60404	Colored single-sided tape	67/2.6	Natural rubber	PVC	
3 Core Starting					
tesa® 51194	Splittable double-sided tape	120/4.7	Synthetic rubber	Splittable paper	
tesa® 60404	Colored single-sided tape	67/2.6	Natural rubber	PVC	
tesa® 64620	Double-sided tape	185/7.3	Synthetic rubber	PP	
tesa® 52307	Double-sided tape	70/2.8	Acrylic	PVC	
tesa® 51904	Double-sided tape	110/4.3	Synthetic rubber	Non-woven	
tesa® 4985	Transfer tape	50/2	Acrylic	None	
4 Roller wrapping and belting					
tesa® Printer's Friend 4863	Embossed surface	620/24.4	Natural rubber	Silicone-coated cloth	
tesa® Printer's Friend 4563	Smooth surface	380/15	Natural rubber	Silicone-coated cloth	
tesa® 4820	Single-sided PTFE tape	100/3.9	Silicone	PTFE	
tesa® 4830	Single-sided PTFE tape	160/6.3	Silicone	PTFE	

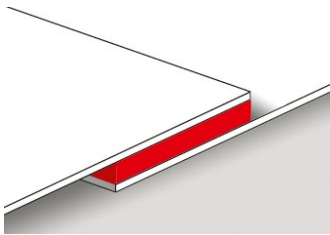
Our splicing tape product portfolio

We offer functional double-sided and single-sided tapes as well as a full range of process tapes tailored for splicing applications in battery and components manufacturing.

- Suited tapes for separator film, anode and cathode material
- Manual and automated splicing applications
- Complementary tapes for core starting and end-tabbing
- Roll-to-roll process know-how to support process optimization



Butt splice



Overlapped splice

Our full range of process tapes for the production process

Application	Flying splice	Flying splice/ Static splice	Static splice	Static splice	Splitting labels	Aluminum detection labels	Black detection labels
Product	tesa® 51904	tesa® 4200	tesa® 61127	tesa® 4137	tesa® 54242	tesa® 51003	tesa® 51005
Tape description	Double-sided tape	Double-sided tape	Single-sided tape	Single-sided tape	Single-sided die cut	Aluminum label for inductive detection	Black label for optical detection
Main product features	• Paper backing • High tack • synthetic rubber adhesive • Pink color	• PET Backing • High tack silicone adhesive • High temperature resistance • Red color	• PET Backing • High tack silicone adhesive • High temperature resistance • Black color	• Metalized backing • High shear strength • High temperature and ageing resistance	• High adhesion on various film materials • Perforated breaking point • Die cut on roll	• Aluminized paper backing • Die cut on roll	• Black paper backing • Die cut on roll
Customer benefits	• Secure splice performance on standard non-polar substrates, even at high speeds • No need for scissors or cutters • Good splice detection	• Best splice performance on various siliconized substrates even at high speeds • Good splice detection	• Best splice performance on various siliconized substrates even at high speeds • Good splice detection	• Good splice detection by light and heat radiation	• Easy top sheet fixation for conventional flying splice	• Good splice detection	• Good splice detection

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.



05/2024

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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