

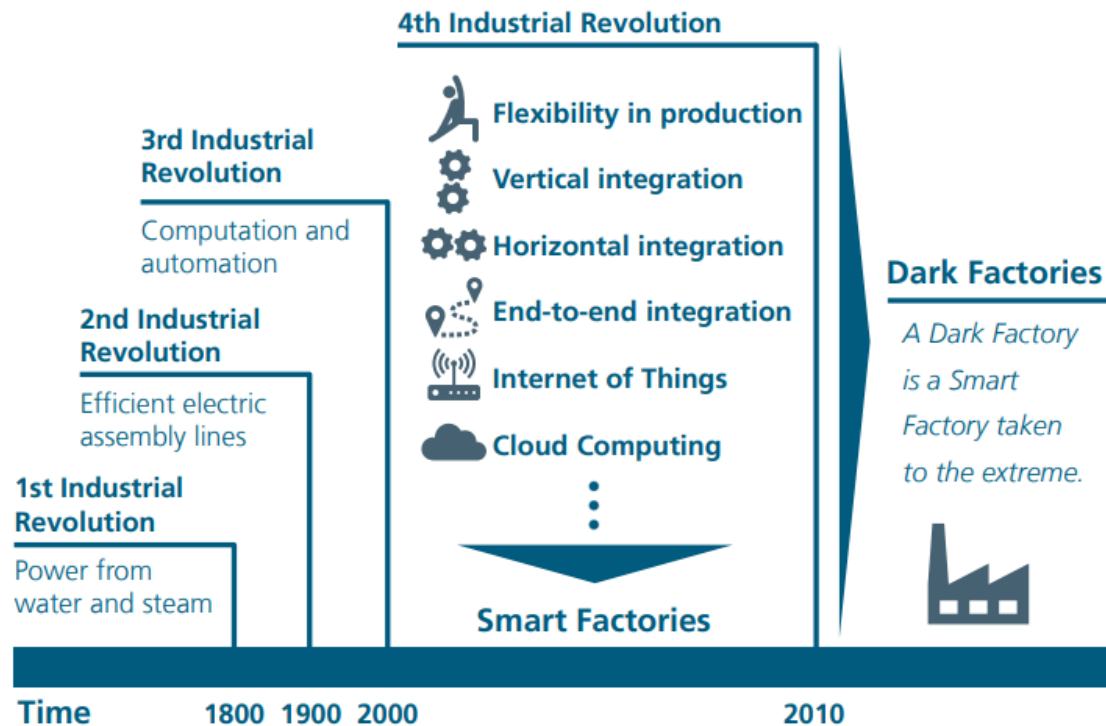
A man with a beard and long hair tied back is smiling as he applies a roll of white adhesive tape to a large, curved, metallic surface. The tape has a repeating pattern of small logos. In the background, there is industrial machinery with large rollers and a red wall with geometric patterns.

# EasySplice Robotics for Battery Films

Robotic tape for anode, cathode, and separator films

# Dark Factory

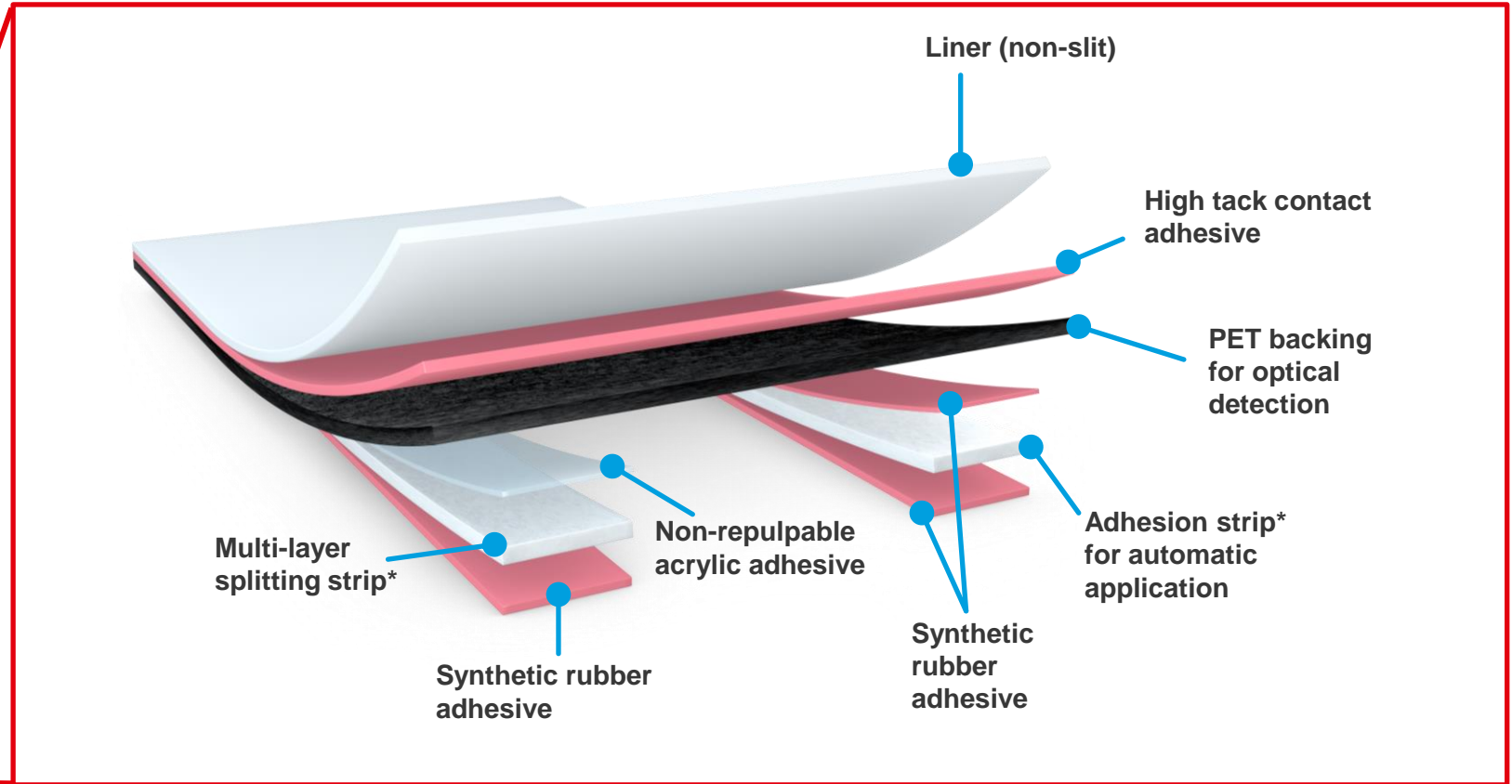
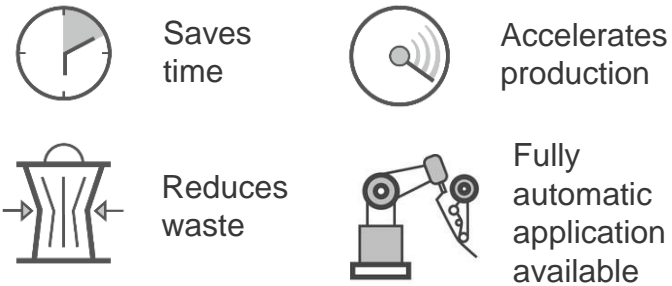
A lights-out factory, also known as a dark factory, operates with minimal human activity, allowing it to function in the dark with zero human intervention onsite.





# tesa® EasySplice 51938 FilmLine Robotic

Optimized Double-Sided Splice Tape for Filmic Materials in Automated Units



# Product Details

## Product design

|                          |   |
|--------------------------|---|
| Technical property       | tesa® EasySplice 51938 FilmLine Robotic |
| Adhesive                 | Synthetic rubber (high tack)            |
| Backing                  | PET film                                |
| Color                    | Black                                   |
| Liner                    | Siliconized paper (non-slit)            |
| Tape thickness w/o liner | 105 µm                                  |
| Tensile strength         | 70 N/cm                                 |
| Elongation at break      | 60%                                     |

## Available NART for sampling and launch phase

| NART           | Length | Width | Color | Stock/ non-stock | MOQ |
|----------------|--------|-------|-------|------------------|-----|
| 51938-00000-00 | 90m    | 38mm  | black | stock            | 1   |

# tesa® EasySplice FilmLine – Assortment Overview



**tesa® EasySplice 51918  
FilmLine Black S**



**tesa® EasySplice 61958  
FilmLine Black A**



**tesa® EasySplice 51938  
FilmLine Robotic**

## Product

## Main product features

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• High tack contact adhesive</li> <li>• Black PET backing</li> <li>• Improved wetting properties</li> </ul> | <ul style="list-style-type: none"> <li>• High tack contact adhesive</li> <li>• Black PET backing</li> <li>• Adhesion strip technology</li> </ul> |
|--|--|

- High tack contact adhesive
- Black PET backing
- Additional adhesion strip & non-slit liner for automatic applicators

## Customer benefits

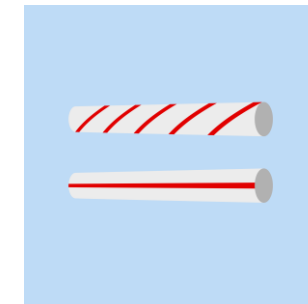
- Secure splice performance on:
  - Thick films
  - Sharp edge films
  - Tubular bags
- Easy splice detection

- Secure splice on standard films
- Easy splice detection
- Less waste – no splitting mechanism

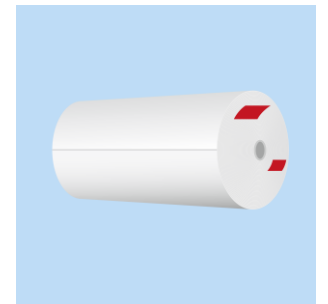
- Secure splice performance at high speeds
- Easy splice detection
- Fast and precise splice preparation

Full assortment provider

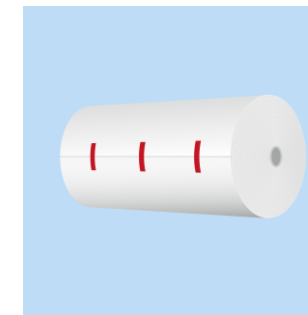
Complementary tape to cover all process steps



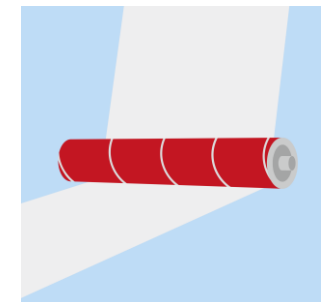
Core Starting



Failure Flagging

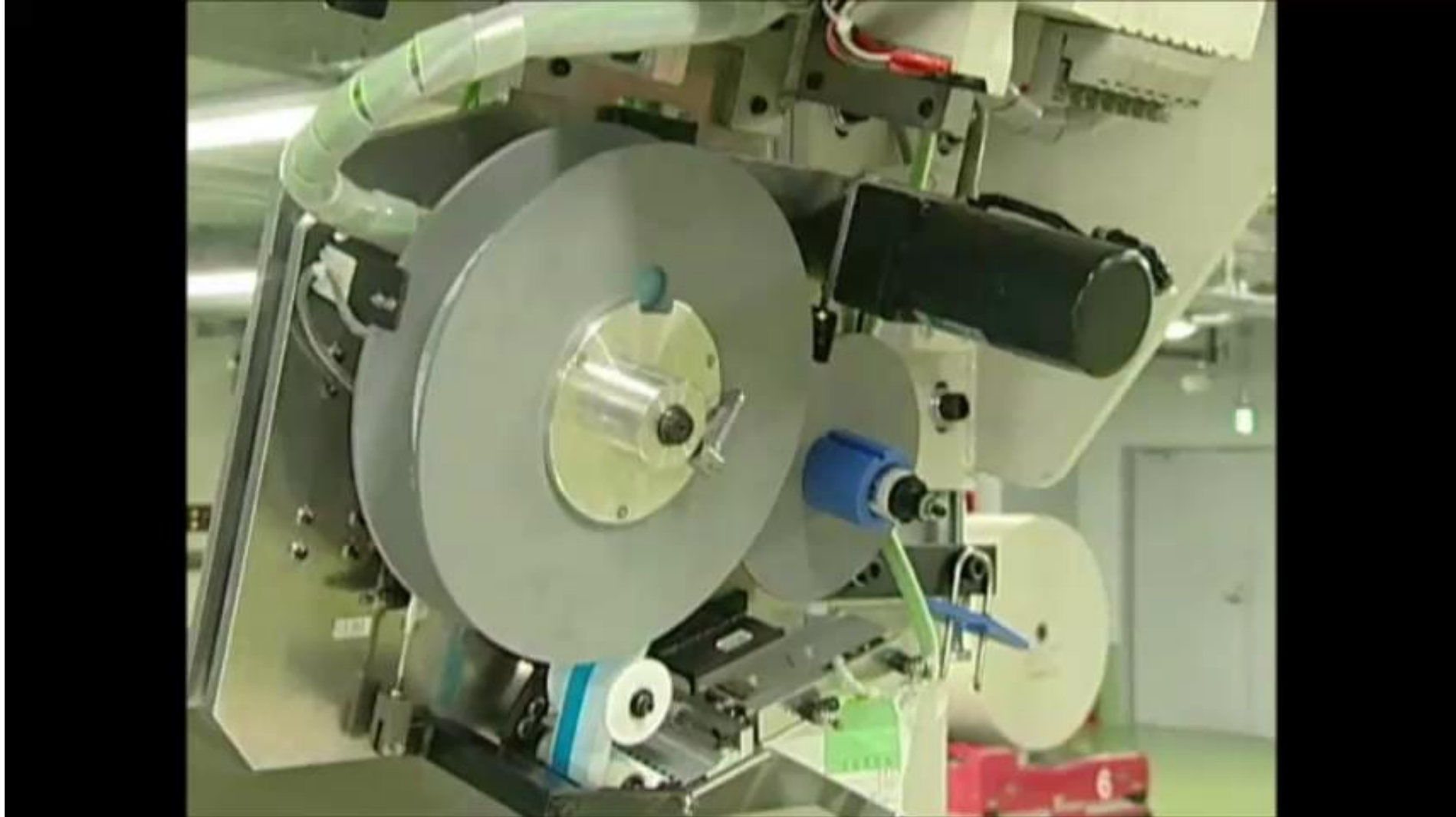


End Tabbing

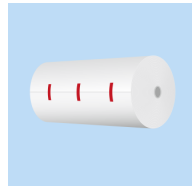


Roller wrapping

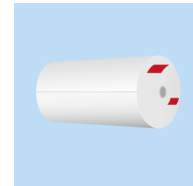
## Robotic Application



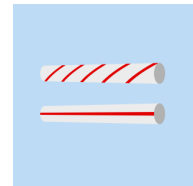
# Complementary Tapes



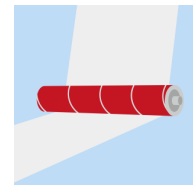
## 1 End Tabbing



## 2 Failure Flagging



## 3 Core Starting



## 4 Roller wrapping

|                                      | Tape description             | Thickness [µm/mil] | Adhesive         | Backing               | Color |
|--------------------------------------|------------------------------|--------------------|------------------|-----------------------|-------|
| <b>1 End tabbing</b>                 |                              |                    |                  |                       |       |
| tesa® 4124                           | Single-sided tape            | 65/2.6             | Natural rubber   | PVC                   |       |
| tesa® 60404                          | Colored single-sided tape    | 67/2.6             | Natural rubber   | PVC                   |       |
| <b>2 Failure flagging</b>            |                              |                    |                  |                       |       |
| tesa® 60404                          | Colored single-sided tape    | 67/2.6             | Natural rubber   | PVC                   |       |
| <b>3 Core Starting</b>               |                              |                    |                  |                       |       |
| 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                  |       |
| <b>4 Roller wrapping and belting</b> |                              |                    |                  |                       |       |
| 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                  |       |

