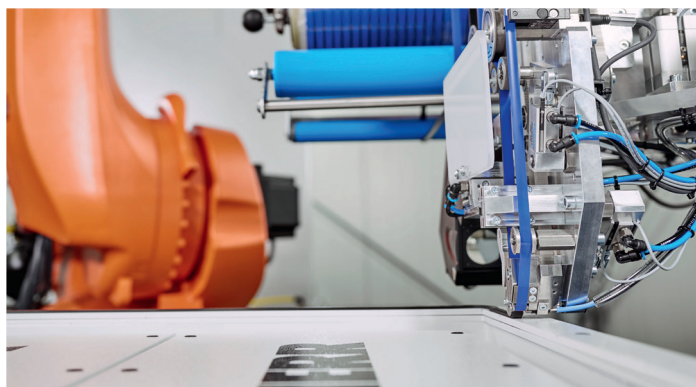
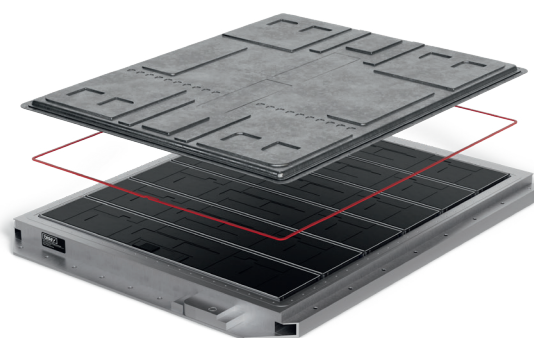


# tesa® 767xx Box Seal

Battery packs represent the heart of every vehicle that is powered electrically. One of the central challenges for battery packs is the efficient and reliable sealing to ensure their performance and safety. At tesa, we have developed a product series for the reliable and automated sealing of batteries with adhesive tapes.

- ✓ Reliable sealing of boxes and protection against corrosion
- ✓ Simple, clean and fast automated application in one step
- ✓ No curing time needed – move your part instantly after application
- ✓ Easy reopening for checks and rework



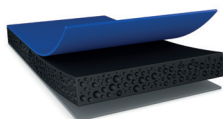
## Sealing of electric vehicle battery packs

Provide a watertight seal between the box and lid to protect the interior against water ingress and corrosion

### Functionalities and requirements:

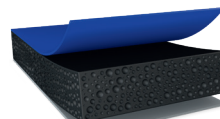
- Water tightness
- Corrosion protection
- Reopenable for rework (and service)
- Seamless integration into production process – Automation

## Features:



### tesa® ACX<sup>plus</sup> 76730 Box Seal

|                    |                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Thickness          | 2.8 mm                                                                                                                                     |
| Gaps               | 0.9 mm - 2.0 mm                                                                                                                            |
| Target application | <ul style="list-style-type: none"> <li>• Suitable for smaller boxes</li> <li>• Sealing of ECUs</li> <li>• (Battery box sealing)</li> </ul> |

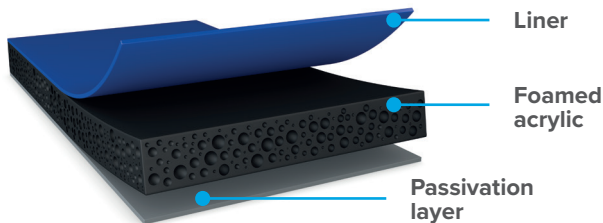


### tesa® ACX<sup>plus</sup> 76754 Box Seal

|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Thickness          | 5.4 mm                                                                  |
| Gaps               | 1.7 mm - 4.1 mm                                                         |
| Target application | <ul style="list-style-type: none"> <li>• Battery box sealing</li> </ul> |

For more tesa information, please check <https://www.tesa.com/en/about-tesa/press-insights/stories/reliable-and-automated-sealing-of-ev-batteries.html>

## Product description



Tape thickness: 2.8 mm and 5.4 mm

### Passivation layer

- Non-sticky at beginning of application allowing for reopening and reworking
- Adhesion builds up after application ensuring reliable sealing

### Foamed acrylic ACX<sup>plus</sup>

- Good adhesion to various substrates
- Viscoelasticity tolerating thermal expansion differences of different materials
- Deep black for good optical appearance and detection sealing

### Product features:



High flexibility to ensure perfect sealing as well as applicability in designs with narrow curves



Efficient and secure bonding of PSA layer and battery case or lid



Extremely high compressibility to enable gap filling and sealing



Allows for easy reopening during and shortly after production



PFAS / PFOS free product



Closed cell acrylic foam core for reliable sealing to prevent liquid penetration



High humidity resistance



High temperature resistance



Flame resistant

### Test method

### Performance

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| Peel adhesion initial aluminum                           | 6 N/cm                             |
| Peel adhesion 3d aluminum                                | 10 N/cm                            |
| Compression                                              | 20% - 70%                          |
| Gap filling: tesa® 76730<br>tesa® 76754                  | 0.9 mm - 2.0 mm<br>1.7 mm - 4.1 mm |
| Sealing properties                                       | IPX7                               |
| Reopening for rework possible (no change of seal needed) | up to 5d                           |
| Reopening for repair (change of seal needed)             | unlimited                          |
| Flame resistance                                         | 1050 °C                            |

For details, please ask for our comprehensive **technical argumentation book**

For more tesa information, please check <https://www.tesa.com/en-us>

### United States and Canada

tesa tape, inc.

39550 W 13 Mile Rd, Suite 150 · Novi, MI 48377

Phone: +1-800-426-2181 · Email: [marketing@tesatape.com](mailto:marketing@tesatape.com)

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.