



# tesa<sup>®</sup> 54485 Fireman Access



## Product Information

Allows fireman easy access to extinguish batteries

## Product Description

tesa<sup>®</sup> 54485 Fireman Access is a fire-, heat- and puncture resistant multi-layer product, comprising of a glass fiber laminated aluminum layer and strong PET layer with a thick acrylic adhesive sealer.

## Product Features

- Opening at high temperatures allowing fireman to flood the battery without additional equipment
- Fire and heat proofness of battery holes > 5 minutes at 500 °C (open flame)
- Reliable corrosion protection and sealing against water ingress
- Excellent puncture resistance
- Secure adhesion to steel, aluminum, plastics, painted substrates, and reinforced plastic substrates in automotive lightweight constructions

## Application Fields

During battery assembly tesa<sup>®</sup> 54485 Fireman Access is applied to the inside of the battery housing. Whilst normal operation it securely seals the fireman access hole against water and dust. In case of fire in the battery pack the hole covering patch reliably shields the passenger compartment from fire and heat of the cells for 5 minutes. During fire in the pack (after 5 minutes) or the vehicle tesa<sup>®</sup> 54485 opens at high temperatures and ensures easy access for the fireman to flood the battery to safely extinguish it without additional equipment.

## Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

## Product Construction

- |                    |                       |                   |         |
|--------------------|-----------------------|-------------------|---------|
| • Backing          | glassfibre / PET film | • Total thickness | 9690 µm |
| • Type of adhesive | modified acrylic      | • Color           | white   |
| • Type of liner    | PE-coated paper       | • Color of liner  | white   |

## Properties/Performance Values

- |                    |           |                          |           |
|--------------------|-----------|--------------------------|-----------|
| • Conformability   | medium    | • Puncture resistance    | 1000 N    |
| • Humidity sealing | very good | • Temperature resistance | very good |

## Adhesion to Values

- |         |         |
|---------|---------|
| • Steel | 12 N/cm |
|---------|---------|

## Additional Information

Puncture resistance acc. tesa<sup>®</sup> J0PM0232, measured from backing side 24 h after application at room temperature:

For latest information on this product please visit <http://l.tesa.com/?ip=54485>



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## Fireman Access

### Product Information

#### Additional Information

- Test climate = 23 ± 1 °C/ 50 ± 5 % relative humidity
- Substrate = e-coated panel, 0.7 mm thickness and hole diameter of 30 mm
- Patch diameter = 50 mm Pin diameter = 20 mm
- Pressurization = 4 kg roll, 5 x back and forth
- Test speed = 300 mm/min

We support your individual application process with tesa designed dispensing solutions to ensure a quick and reliable sealing of holes in battery. By fitting your robot with the best end arm tooling we enable a smart automation concept in your production site.

### Disclaimer

tesa<sup>®</sup> products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless 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. Therefore, the user is responsible for determining whether the tesa<sup>®</sup> 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.



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