

tesa® ACXplus 76754 Box Seal

Product Information

5.4 mm single sided acrylic foam tape for box sealing applications e.g. in battery packs

Product Description

tesa® ACX^{plus} 76754 Box Seal is a deep black single sided acrylic foam tape used for reliable sealing of box lids. Its temporarily passivated side enables reopening of boxes shortly after application for checks and reworking. Over time, the passivation abates, guaranteeing a reliable sealing of the bond.

The product resists external influences and weather to protect the inside of the pack as it securely seals the pack against the ingress of water, moisture, and other substances.

Our new PSA based Box Seal does not need any curing time, thus enabling to reduce process time to a minimum and to optimize production efficiency. In addition to that there are low limitations for outer application conditions such as temperature or humidity compared to other technologies.

Its outstanding compressibility allows not only for gap filling but also ensures reliable sealing properties. The tape can be used as die-cuts and due to the high flexibility also be automatically applied from rolls or spools in geometries even with narrow curves, while sealing properties can still be ensured.

With its viscoelastic properties, tesa® ACX plus 76754 Box Seal absorbs and dissipates dynamic and static loads as well as stresses caused by material combinations with different coefficients of expansion at fast changing temperatures.

The deep black color provides an enhanced appearance and high design flexibility.

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 box case or lid
- Extremely high compressibility to enable gap filling and sealing
- No curing time needed
- 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

Application Fields

tesa® ACX^{plus} 76754 Box Seal has been developed for permanent sealing of boxes such as battery packs in electric vehicles. It can be used for lids on top of the battery pack or the direct mounting of the box to the car underbody.

tesa® ACXplus 76754

Box Seal

Product Information

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	PU film	• Color	deep black
• Type of adhesive	acrylic	• Color of liner	blue
• Type of liner	PE/PP protection film		

Product Assortment

• Available thicknesses	2.8, 5.4 mm
-------------------------	-------------

Properties/Performance Values

• Chemical Resistance	very good	• Humidity sealing	very good
• Conformability	very good	• Temperature resistance	very good
• Flame resistance	does not ignite		

Adhesion to Values

• Steel (initial)	5 N/cm
-------------------	--------

Additional Information

- Compression: 20%-70%
- Gap filling: 1.7 mm – 4.1 mm
- Sealing properties: IPX7 (sufficient compression must be ensured)
- Flame resistance: 1050 °C (for 5 minutes between two aluminum substrates)

Disclaimer

tesa® 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® 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.



For latest information on this product please visit <http://l.tesa.com/?ip=76754>