

Funktional punched parts

■ For Electronic and Automotive-industry

toptack

GmbH

■ Separating foils

For potting compound at electronics
Painting of components

■ Pressure indication foils

For the indication of force

■ Membrane foils

For pressure compensation

■ Precision stamping foils

For connector area

Separating foil (self-adhesive, with LOTUS-effect surface)

For use when encapsulating electronics in housings

In the case of using blocking substances, such as, e.g. casting compounds in the electronics, unwanted attachments or connections of the compound to the housing, can lead to damages. Also different coefficients of expansion of materials can be unintentionally connected lead to damage up to the failure of the whole electronic module. The use of separating film can prevent this.

LOTUS-Effect

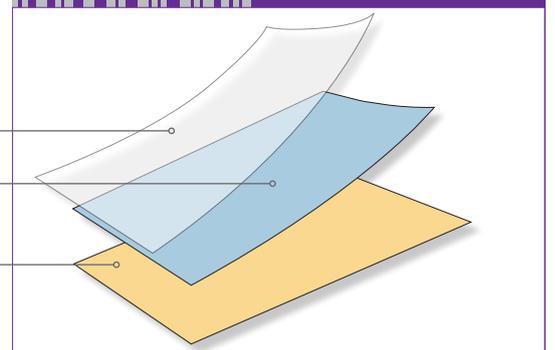
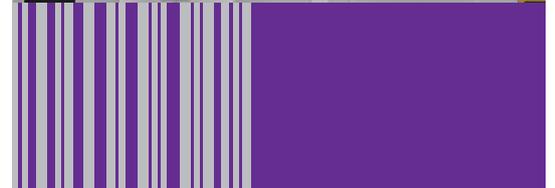
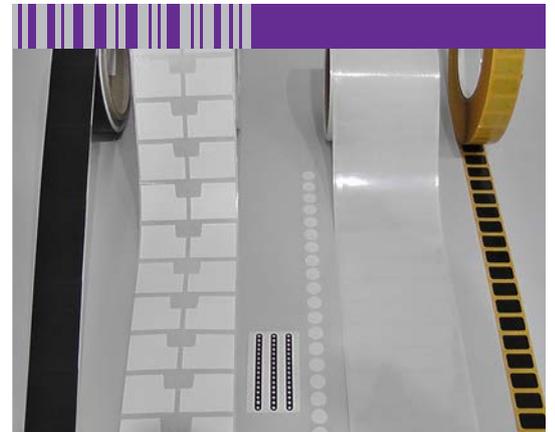
Furthermore, highly transparent separating film is available and can be used in a wide range of applications, when repellent surface is helpful or necessary. Through the „Lotus effect“ of the film surface, it is used as a paint mask protection film in combination with labels, for marking components which will be coated or painted.

Modular in construction and combination

The particular application determines the construction of the foil. The requirements for the application are decisive: anti-stick behavior of the surface (Lotus-Effect), lasting durability, temperature resistance and moisture resistance are the dominant and decisive factors here.

- Extremely repelling surface prevents any attachment of substances
- Pressure sensitive adhesive, adapted to the process and to the adhered surface
- Support medium of the stamped parts

Dimension, shape and construction of the separation film can be tailored to customer needs.



Membran foil

For use on non-encapsulated electronic housings

At hermetically sealed electronic housings, with enclosed air volume, the temperature changes lead to pressure fluctuations inside the housing. Only targeted pressure compensation prevents long-term damage of the housing and unwanted water intrusion, leading to the destruction of the module.

Modular in construction and combination

The particular application determines the construction of the foil. The requirements for the application are decisive: Water entry point, temperature resistance and moisture resistance are relevant criteria. Different pore sizes and pore densities are available for the membranes. Air flow and water pressure tightness can be determined by the membrane material. Testing of the membranes after application is possible by using flow meter.

- Microporous membrane allows air exchange and prevents water intrusion
- Optionally also partially equipped with pressure-sensitive adhesive, for gluing the membrane
- Support medium of the stamped parts

Dimension, shape and construction of the microporous film can be tailored to customer needs

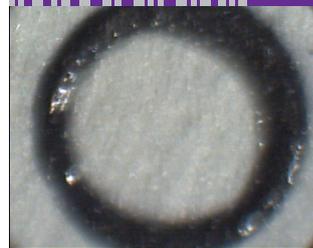
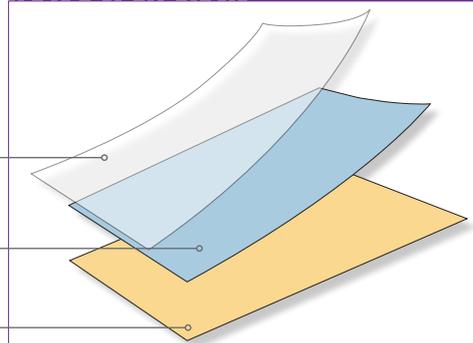


Illustration:
Membrane welded

Pressure indication foil

For checking contact points, test points and pressure points

In the case of press-in operations, the device has to be tested in regular cycles in order to avoid errors and secure the quality of the connections.

The clearly indication of the contact, the contact surface and the forces brought in leads to clarity.

The pressure indication film clearly shows whether the form-locking is given and whether the predetermined force is reached.

Modular in construction and combination

The surface pressure force is decisive for the selection of the suitable pressure indicator film. Depending on the surface pressing force that should be indicated, the suitable indication film for the force range will be selected. Based on the selected film the shape of a tool can be punched out of the foil and being used for measuring.

- Pressure indication sheet, available in the range of 2N /cm² up to 3000N /cm²
- Back-pressure film

Pressure range, dimension and shape of the pressure indication foil can be tailor made.



Foils Punched parts with precision

For application in the area of plugs

In the field of electrical multiple contacts, protective films or sealing films can prevent the penetration of pollutants, moisture or particles in to the contacts. Die-cut adhesive parts or pure die-cut adhesives, as well as stamped self-adhesive foam pads can be used in this application. However, it is always necessary that these punched parts are manufactured with high precision, because of small dimensional tolerances.

Modular in construction and combination

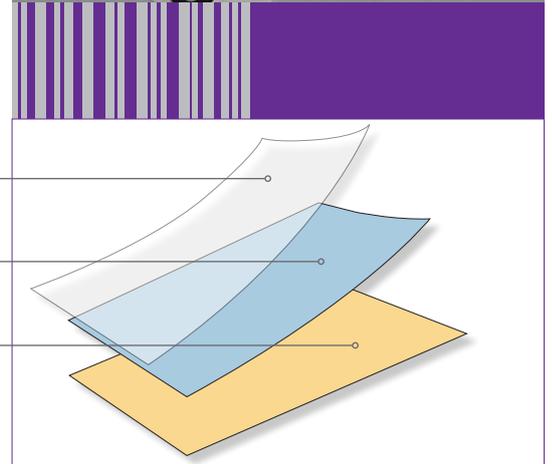
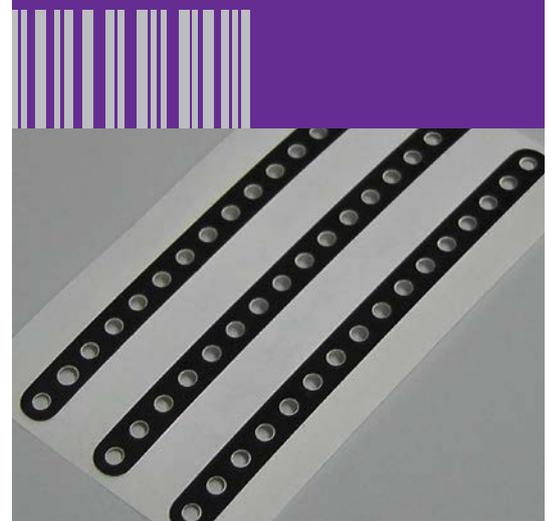
The particular application determines the construction of the layers. Film, adhesives or foams can be selected according to the task. Long term durability, electrical insulation strength, temperature resistance and hardness of the material are here the important factors. Precise punching of a few 1/10-mm mm, with tolerances of +/- 0.1 mm can be realized.

- Films, self-adhesive tapes or thin foams are possible here
- Optionally full adhesive or partially adhesive areas adjustment is possible
- Support medium of the stamped parts

Dimension, shape and construction of the microporous film can be tailored to customer needs



Circular pressure-indication (contact pressure indication)



To the perfect solution by engineering

Functional parts for technical applications

Versatile applications can be realized with functional foils. Decisive is the right choice and the appropriate combination of materials. The in - depth knowledge of materials, technical requirements and advice from toptack GmbH lead you to success!

You have the task, we supply the solution!

In collaboration with leading material manufacturers and processors we will provide you with innovative and efficient solutions.

Functional films and labels

- Functional punched parts
- Samples and prototypes
- Self-adhesive punched parts
- Logistics and Services
- Labels
- Engineering
- Print and Laser jobs on demand

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