

air-o₂

air cushion protection skin & packaging system



step #1 „growing“

The first step is called „the growing“. If you want to get your object to be protected (in my example a mobile phone), you can activate your protection cover by pushing the main button (activation button) on your mobile phone and the protection skin starts growing around the object, like a ivy plant or mold. It looks like an organic net, which is filled with air. At this time of the process the material is very soft. If you want only a partial protection, you can stop the growing by pushing the button. Otherwise it will grow until the whole object is filled with the „light protection skin“. (The material of the model is made out of silicone, which simulates very good the character of the future final material.)



step #3 „metamorphosis“

The third step is called „the metamorphosis“. After pushing the button again your „light protection skin“ turns inside out. The skin inverts its form – it turns from the inside into the outside. That means, that in this step the air filled net opens the empty interior space and fills it with air. Like that, the protection can be increased again, because these air chambers are bigger. This protection is called „complete protection skin“. At this time of the process you can also decide between a soft and hard version.

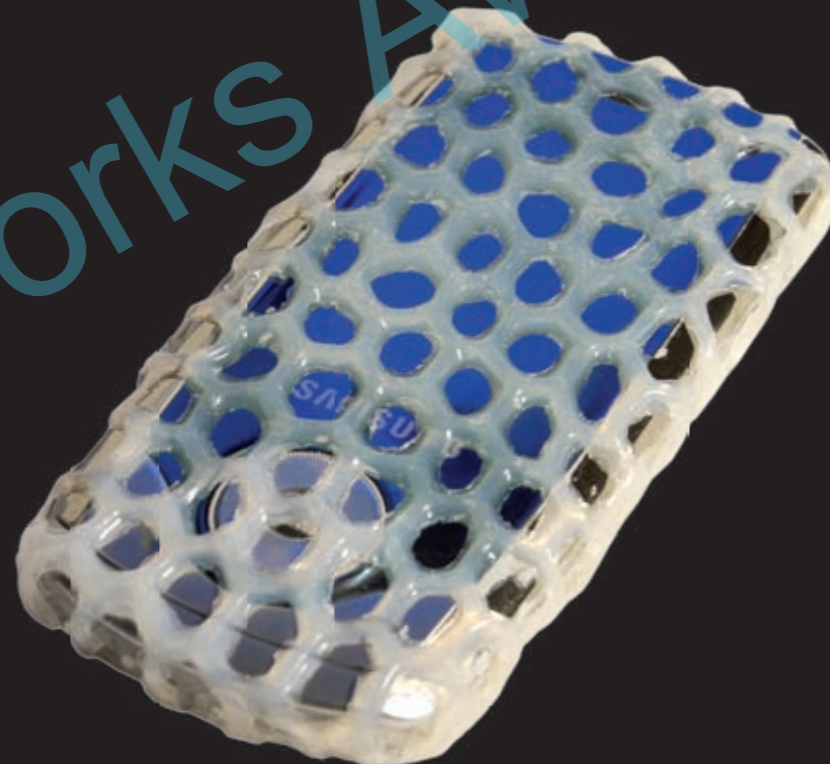
To switch-off the protection, you can push the button twice (double-click).



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In the future (2020) the air-o₂-protection skin-technology is inside of almost every device (product). The air-o₂ material is a high-tech air membrane, which can change the conditions from soft (like silicone) to hard (like the PET plastic film).

The air-o₂ technology works as following: The air membrane will be blown up by a small air injection pump which is included in the inside of the object. By pushing the (main) button of the objekt, the process of inflation will be activated. If you push the button again while inflating, the process will stop. like that, you can choose the protection grade. That means, that you can decide, if you want the „light protection skin“ in soft or hard condition, or if you want the „complete-protection-skin“ in soft or hard condition.



step #2 „transformation“

The second step is called „the transformation“. After the whole object is covered with the „light protection skin“, you can push the button again and the skin will transform into a hard protection skin with the same pattern look. This look is spacy and if you like it, you can leave it like that. You can use this protecton for your daily handling with your mobile phone. Like that, it will be like a common soft protection case. If you need more protection for your mobile phone, you can push the button again so that the next step will be started.

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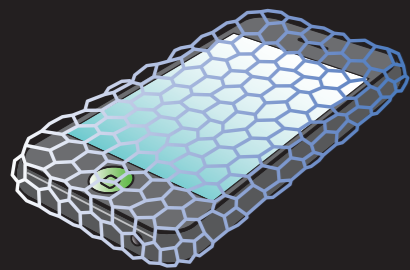
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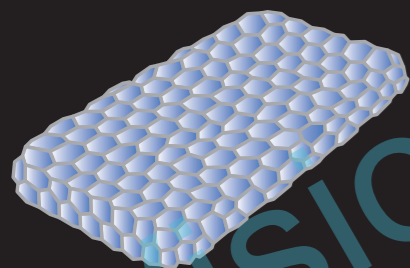
By pushing the green button the process of inflation will be activated.



„The growing“ phase looks like a ivy plant or mold.



„Light protection skin“ in soft or hard condition.



„Complete-protection-skin“ in soft or hard condition.



By pushing the button twice (double-click) the protection will switch-off.

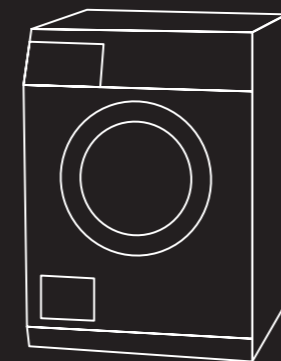
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„The nature shows us, how we can do things better.“
Statement of Michael Braungart in the book „Cradle to Cradle“.

Inspired by the nature and its organic forms, new technologies in architectural patterns and modern forms out of technical products, I tried to create a complex organic packaging solution for the year 2020. Sustainability is already today a very popular and actual theme and it will be even more important until 2020. Today we have packaging systems, which we need only for transportation of our goods from the producer to the consumer. It is like a temporary (big) protection skin. After the product has arrived at the final destination, the packaging is put into the rubbish. Like that every year tons of rubbish are produced. But after a few days, we usually buy another protection skin, so that our new object is protected again. Why don't we combine these two systems into one? In order to solve these ecological problems, I came up with the idea of a packaging product which is called „air-o₂“.

Air-o₂ is a packaging system and at the same time an air cushion protection skin for products. It can be used as a normal fancy protection skin for daily usage or to transport objects (for example by parcel post). Whatever you want to protect, the air-o₂-system gives you the opportunity to protect big objects as well as small ones.

packaging contingent compared with different object sizes



Object dimension

Packaging contingent compared to the dimension of the object

