



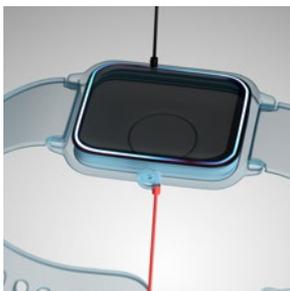
What if permanence became a choice?



tesa's Debonding on Demand technologies can make it possible.

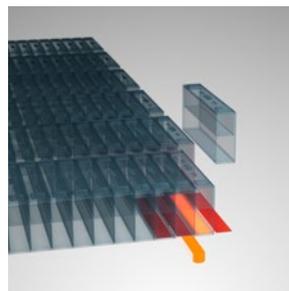
By supporting modular thinking, engineers and designers can now innovate and design with more freedom and flexibility. Rework efficiency during production, reparability once necessary, and recycling at end-of-life can all be supported by tesa's Debonding on Demand technologies.

Introducing how our technologies function in principle to open new possibilities for future product development:



Electrical debonding

Low-voltage electricity causes electrochemical reactions and triggers the precise debonding of the adhesive within a few seconds.



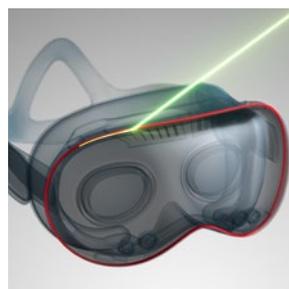
Thermal debonding

Thermal debonding works by generating heat, either directly or through induction, causing a reaction that quickly reduces the bonding strength and can allow for spotless, quick, and easy separation.



Stretching & Debonding

Developed from the famous tesa® Powerstrips, tesa® Bond & Detach tapes use pulling to weaken the adhesive's structure. Allowing for clean, fast, and effortless disassembly.



Laser debonding

When light from a Near-Infrared laser targets an active middle tape layer, it is weakened within seconds. Enabling quick, easy, spotless separation.

In a circular economy, it's not enough to build things to last. Components also need to come apart cleanly, efficiently, on demand. tesa's Debonding on Demand technologies are going to enable smarter separation so you can design, produce, repair, and recycle without compromise.

Benefits at a glance

Separation by design



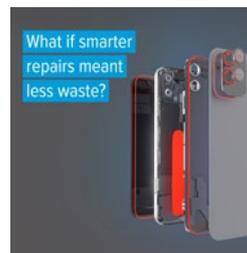
Designing for separation is a smarter, more future-ready approach. Our innovative adhesive technologies can empower engineers and designers to rethink the entire product lifecycle from assembly to end of life, enhancing both design flexibility and circularity.

Rework during assembly



Quick corrections can become necessary in any industrial production line. Our innovative adhesive technologies can enable easy, efficient disassembly and rework of components to help reduce downtime and maintain cost-effectiveness and high standards in manufacturing.

Smart repairs



Our innovative adhesive technologies can support clean, damage-free separation of bonded components. This can help make product repair faster, more precise, and less wasteful across industries such as automotive and electronics, where reparability is essential.

Disassembly for recycling



Clean separation is essential for circular design. Our innovative adhesive technologies can enable products to be easily disassembled, which supports material recovery and improves recyclability, enabling manufacturers to reduce waste throughout product lifecycles.



From idea to implementation – let's go together

Designed to meet the real-world pressures of modern manufacturing, tesa's Debonding on Demand technologies can help manufacturers build with the future in mind. They can enable clean separation, material recovery and reuse, extending product lifetimes, reducing waste and supporting compliance with evolving repair and recycling targets.

Let's talk about your specific requirements so we can develop products that match!
tesa.com/debond



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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.