

# Press Release



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Covestro at the Compamed 2021 trade show

## **Innovative material solutions from wound care to wearable smart patches**

At this year's [Compamed](#) trade show in Düsseldorf, Germany, taking place from November 15-18, 2021, [Covestro](#) will be showcasing innovative material developments related to wearable smart patches, wound care and medical packaging at booth F35 in hall 14.

### **More comfortable and sustainable wearables**

Wearable patch sensors (smart patches) are enjoying increasing popularity, as they offer a wide range of options for medical diagnosis. Current trends include enhanced convenience, even more functions, and ongoing miniaturization. What's more, the public is demanding more sustainable solutions and a move away from disposable products. Together with its partner [accensors](#), Covestro has developed a smart patch consisting of two elements: The disposable patch, which contains the sensors, and the ReUse patch, which contains the electronics. This makes it possible to reuse the valuable electronic parts.

### **Efficient production of wound dressings**

The production of wound dressings and plasters, as well as medical wearables, involves a multi-stage process. The combination of a polypropylene (PP) backing with blown films from the Platilon® range made of thermoplastic polyurethane (TPU), in particular, is now proving to be well suited to satisfying today's high demands for process efficiency and ease of use in wound care. In comparison to the production of paper backings, the generation of dust in the production process is significantly reduced.

### **Breathable wound dressings to prevent bedsores**

In the case of prolonged disease progression, it is important to prevent bedsores (pressure ulcers). Covestro has developed a concept for a prevention dressing



that addresses the three most important factors for bedsores: Pressure, friction and shear. A highly breathable prototype is made exclusively from Covestro polyurethane materials.

The key features of this prototype wound care dressing made from Baymedix® and Platilon® materials are:

- Optimized friction, shear and pressure management
- Excellent moisture management to support a healthy microclimate
- Application- and skin-friendly polyurethane adhesive
- Efficient and sustainable manufacturing technology

### **Extra matte films for increased wear comfort**

The PP backings can also be combined with multilayer Platilon® TPU films, for example, to achieve individual properties such as a specific surface finish. TPU blown films offer a wide range of surface qualities from silky to extra matte. In particular, Platilon® XM films offer an extra matte, skin-like surface and a soft feel that offers increased comfort for patients. Medical products made with the low-friction Platilon® XM films adhere to the skin longer because friction against textiles is minimized. This, in turn, prevents premature changes of dressings and plasters. Owing to its soft surface feel, the film feels like a second skin. It is used in wound dressings, plasters and other medical products that require high breathability.

### **High-quality breast implants require high packaging standards**

Breast implants must be treated with the utmost care, from manufacture and transport to visual inspection before surgery. The packaging must be particularly shock-resistant, transparent, and highly sterile. Makrofol® MA507 and MA336 polycarbonate films are able to achieve the necessary impact resistance and transparency. They also withstand superheated steam sterilization at 120 and more degrees Celsius without damage. Covestro also offers films for packaging orthopedic implants.

### **About Covestro:**

With sales of EUR 10.7 billion in 2020, Covestro is among the world's largest polymer companies. Business activities are focused on the manufacture of high-tech polymer materials and the development of innovative, sustainable solutions for products used in many areas of everyday life. In doing so, Covestro is becoming fully circular. Its main customers are the automotive and transport industries, the construction industry, the furniture and wood processing industries, and the electrical, electronics, and household appliance industries. Other sectors include sports and leisure, cosmetics, healthcare and the chemical industry itself. As of the end of 2020, Covestro produces at 33 sites worldwide and employs around 16,500 people (converted to full-time positions).



**Forward-looking statements**

This press release may contain forward-looking statements based on current assumptions and forecasts made by Covestro AG management. Various known and unknown risks, uncertainties, and other factors could lead to material differences between the actual future results, financial situation, development, or performance of the company and the estimates provided here. These factors include those discussed in Covestro's public reports. These reports are available at [www.covestro.com](http://www.covestro.com). The company assumes no liability whatsoever to update these forward-looking statements or to make them conform to future events or developments.