From wound care to wearables

Innovative material solutions at the Compamed Medica trade fair

Covestro shows comfortable and efficient developments

Figure caption: aqueous polyurethane dispersions of the Baymedix® CD range are an excellent starting material for seamless medical gloves. Such films can be produced e.g. in the dipping process.

At the Compamed Medica Trade Fair from 12 to 15 November in Düsseldorf, Covestro will present innovative solutions for medical care. At Stand H30 in Hall 8b, visitors can obtain information about innovative wound care solutions - from low-trauma adhesives to highly absorbent foams and breathable protective films. The company will also be presenting integrative solutions for medical devices and wearables.

Holistic solutions for wound care

Covestro offers holistic material solutions for all layers of modern wound dressings. Polyurethane adhesive components from the Baymedix® A range are characterized by excellent breathability - an important prerequisite for moisture management in advanced wound dressings. The adhesive system can also be easily removed from the skin without sticking to the hair (low trauma).

Covestro Baymedix® FP also provides polyurethane raw materials for foams with excellent absorption and retention properties. By directly coating the carrier film with the adhesive system or foam, process and laminating steps can also be saved in production which increases efficiency. Special thermoplastic polyurethane films (TPU) from the Platilon® range with a particularly mat surface round off the range.

Seamless films for medical gloves

Aqueous polyurethane dispersions of the Baymedix® CD range were specially developed for use in latex-free, highly elastic films. Their outstanding mechanical stability makes them an excellent starting material for seamless medical gloves. Such films can be produced both in the dipping process and in the efficient roll-to-roll process.

Better wearing comfort through skin-friendly wearables

Wearable electronic patch devices are already being used in a variety of medical applications, including monitoring, diagnostics and drug delivery. They help patients gain greater mobility. The wearables must be worn on the skin around the clock for a prolonged period of time so they need to be particularly kind to the skin, comfortable, but also adhere firmly to the skin. Among other things, Covestro has developed special breathable TPU films from the Platilon® range for this purpose.

The company also supports customers in the manufacturing with a process that allows wearables to be efficiently produced from roll to roll. The electronic module is fixed to the carrier film in one step and embedded in a thermoformable polyurethane foam that is fed onto a second film. The patch is then fixed with a special, skin-friendly adhesive. The adhesive system and thermoformable foam are based on Baymedix® polyurethane raw materials. With this Covestro offers a complete solution for modern and high-quality wearable patch devices.

Covestro film expert Gerd Büschel will give a lecture on this application at the Medica Connected Health Forum in Hall 15, Stand C24 on November 13, starting at 3.20 pm. Information: www.medica.de.

Picture: 2018-155 Pic

Figure caption: aqueous polyurethane dispersions of the Baymedix® CD range are an excellent starting material for seamless medical gloves. Such films can be produced e.g. in the dipping process.

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With 2017 sales of EUR 14.1 billion, 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 solutions for products used in many areas of daily life. The main sectors served are the automotive, construction, wood processing and furniture, and electrical and electronics industries. Other sectors include sports and leisure, cosmetics, health and the chemical industry itself. Covestro has 30 production sites worldwide and employs approximately 16,200 people (calculated as full-time equivalents) as at the end of 2017.