

Press Release



Leverkusen/Shanghai,
April 12, 2021

"Pioneering a circular future together"

Covestro AG
Communications
51365 Leverkusen
Germany

Contact
Dr. Frank Rothbarth
Telephone
+49 214 6009-2536
Email
frank.rothbarth
@covestro.com

Contact
Richard Fu
Telephone
+86 21 8020 8452
Email
richard.fu
@covestro.com

Covestro presents innovative polycarbonate solutions at CHINAPLAS 2021

- **Launching the world's first climate-neutral polycarbonate**
- **Advanced solutions designed to boost the Circular Economy**
- **Design aesthetic creating value for customers**

At the CHINAPLAS 2021 trade fair to be held in Shenzhen, China from April 13–16, [Covestro](#) will showcase a range of cutting-edge technologies and innovative solutions in various fields, as well as insights into design and aesthetics, all under the motto "Pioneering a circular future together". This is another proof of Covestro's commitment to building a Circular Economy and a sustainable future.

Meanwhile, the materials manufacturer unveiled plans to start offering the world's first climate-neutral polycarbonates later this year, in a major step towards its vision to become fully circular while better supporting its customers to reach their sustainability goals.

"This is another milestone in pursuing our sustainability vision. We are committed to supporting our customers in mobility, electronics, electrical, healthcare and appliances industries to meet their challenges by providing products and solutions that provide excellent performance, cost efficiencies and sustainability," says Michelle Jou, President of the Polycarbonates segment at Covestro. "We are accompanying our clients in accelerating the transition to the Circular Economy, as well as helping to build an industrial ecology that favors circularity."

World's first climate-neutral polycarbonate resin



These polycarbonate grades are climate neutral from cradle to gate¹, thanks to the introduction of raw materials coming from mass-balanced bio-waste and residues² and renewable energy into the production process. Covestro is already supplying [ISCC PLUS certified polycarbonates](#) based on renewable feedstock attributed via the mass balance approach, with a significant carbon footprint reduction. Mass balance is a chain of custody method to track materials through the value chains and allows allocation of renewable feedstock to selected end products.

"With the use of renewable energy, Covestro is expected to cut carbon emissions completely for these selected products from cradle to gate. These products have the same good quality and performance as fossil-based polycarbonates, and are a drop-in replacement without the need to modify existing processes or workflows," says Jimena Ruesta, Venture Manager, Sustainability Solutions at Covestro's Polycarbonates segment. The first climate-neutral products are going to be delivered from the company's European sites later this year, to be followed by sites in other regions including China, in agreement with market requirements.

Meanwhile, Covestro announced that it is now offering post-consumer recycled (PCR) polycarbonates on its flagship store at 1688.com, China's leading B2B trading platform under the Alibaba Group, to better support its customers in reaching their sustainability targets with this digital approach. With 75 percent recycled content, the PCR grade offered on 1688.com reduces the carbon footprint by 50 percent compared to the virgin grade.

Advanced solutions for multiple industries

In the *electrical, electronics and appliances* industry, Covestro helps electrical and electronics brands obtain the EPEAT (Electronic Product Environmental Assessment Tool) ecolabel, resonate with global consumers in caring for the environment, and fulfill their commitments to low carbon and recycling with a diversified sustainable solution portfolio, together with rigorous supply chain and quality control processes. At CHINAPLAS, Covestro will also present a series of high-performance materials solutions that enable intelligent functions, connectivity, aesthetics, and circular design. Thin-wall, flame-retardant Makrolon[®] and Bayblend[®] polycarbonates cater to the design trends in the consumer electronics and smart home appliances sectors, while the thermal conductivity of Makrolon[®] leads to enhanced heat dissipation in high-performance smart interconnected devices.

¹ Cradle-to-gate is an assessment of a partial product life cycle from resource extraction (cradle) to the factory gate. Based on Covestro internal calculation, external review is ongoing.

² Biogenic carbon uptake is considered in the carbon footprint calculation.



The *mobility* industry also has increasing requirements for materials. In response to the personalization and functionality trends, especially in the passenger vehicle market, Covestro provides integrated front grille materials solutions for distinctive exterior styling, while enabling effective combination with autonomous functions. The company's DirectCoating process and transparent glass-fiber polycarbonates enable interior trims with visual aesthetics and processing efficiency. In addition, Covestro will present battery pack materials solutions for electric vehicles that cater to various battery module materials, reduce energy consumption by lowering vehicle weight, and guarantee vehicle safety.

As *healthcare* patients increasingly self-administer medicines, they rely on drug delivery devices using low-friction components for accurate dosing. To enable faster recovery, patients demand minimally invasive surgeries, where strong and reliable surgical tools are needed. Therefore, Covestro introduces a new glass-fiber reinforced medical polycarbonate portfolio for surgical and drug delivery applications, such as internal components for delivery devices and handles for surgical tools. It also introduces a new low-friction medical polycarbonate portfolio used in moving components for delivery devices, eliminating the need for external lubricants. Both scenarios will be displayed at CHINAPLAS 2021 to showcase how Covestro leverages these new materials and beyond to meet healthcare needs of today and the future.

Design aesthetics increase value

Also on display is Covestro's CMF (color, material, finish) expertise. Covestro's CMF Team aims to provide clients with unique solutions by considering aesthetic value, design trends, and composition materials. The artwork 'garden' to be exhibited at the booth consists of recycled Nongfu Spring water barrels in combination with Covestro's latest CMF trend colors, forming the "Beautiful Recycling Flower".

Additionally, Covestro will present the [Circular Design Guidebook](#) for the electrical, electronics and home appliance industries. The guide, jointly authored with consultancy REnato lab, is designed to help designers, developers and other players in the value chain to consider the Circular Economy from an early stage of product design, as well as providing instructions on how to select materials.

Visitors can visit Covestro's booth at 17P71-1, Hall 17, Shenzhen World Exhibition & Convention Center. Covestro's [CHINAPLAS digital showroom](#) will be launched simultaneously.

About Covestro:



With 2020 sales of EUR 10.7 billion, Covestro is among the world's leading 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 daily life. In doing so, Covestro is fully committed to the circular economy. The main industries served are the automotive and transportation industries, construction, furniture and wood processing, as well as electrical, electronics, and household appliances industries. Other sectors include sports and leisure, cosmetics, health and the chemical industry itself. At the end of 2020, Covestro has 33 production sites worldwide and employs approximately 16,500 people (calculated as full-time equivalents).

Forward-looking statements

This news release may contain forward-looking statements based on current assumptions and forecasts made by Covestro AG. 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 given here. These factors include those discussed in Covestro's public reports which are available at www.covestro.com. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.