

PUSHING THE BOUNDARIES OF WHAT IS POSSIBLE

Tomorrow's connected world relies on innovative materials. Covestro is ready. We are constantly developing high-performance polymers to bring fresh ideas to life.

Curious and collaborative, we seek partners to push boundaries with us. Our premium polymers are advancing breakthroughs in industries like mobility, construction, healthcare and electronics. Combining our materials with your ambitious plans, we will work together to address your challenges - and the world's most pressing problems.

From climate change to resource scarcity to population growth, our future requires a high commitment to sustainability. We embrace a Circular Economy as our guiding principle and our highest goal. Every solution we create must make our lives and our planet more sustainable.

WHERE BETTER **TO CONNECT THAN AT CES 2021?**

We are open for innovation and committed to make the world a brighter place. Let's create tomorrow together.

Connect with us during CES #HelloTomorrow in



OUR INDUSTRIES



Construction



Healthcare



Electronics



Mobility



(4) Energy



Security & protection

WE CREATE THE MATERIALS

THE FUTURE IS MADE OF

Covestro is in the business of making life better. We constantly look for ways to collaboratively improve products and technologies – making them more efficient, safer, smarter and more sustainable. Explore some of our latest material innovations in six areas.



HOME AUTOMATION & SECURITY

Anticipating the smart home of the future, with materials that integrate electronics to improve our lives

Embedded electronics

Makrofol® polycarbonate film and Makrolon® polycarbonate are integrated with electronic circuits for smart, ultra-slim functional design.

Home automation

For the household of tomorrow, we are innovating how Covestro polycarbonates can power smart home products, such as IoT devices, that are mobile, integrated and customized.

Smart locks

Touch-controlled home security is enabled by light, thin 3D parts made from Makrolon® polycarbonate powered by injection molded structural electronics.

ID/Banknote holograms

A leading developer replaced foil-based rainbow security holograms with vibrant, durable 3D holograms on Bayfol® HX photopolymer film.



NETWORK & TELECOM

Building resilient, sustainable cities of the future with materials that support next-gen technology

5G transmitters

Makrolon® polycarbonate optimizes signal transmission and heat resistance while making it easier to deploy in urban outdoor environments.

Windmill farm in Germany

Starting in 2025, Covestro is set to power its plants in Germany with wind energy from the North Sea as part of our move to a circular economy.

5G mobile phone covers

Makrofol® SR multilayer films support 5G high-frequency radio transmission requirements while offering durability and design aesthetics.

Telescope applications

When the Italian National Institute for Astrophysics needed highly efficient, diffractive light-guiding films for its specialized telescopes, it chose Bayfol® HX holographic films for optical quality and light diffusion.



Driving innovation into motion to transform vehicle design inside and out

Electronics-enabled mobile healthcare

Covestro collaborated with designers to gain insights and envision electronics-enabled mobile healthcare for both on- and off-grid care scenarios.

Functional exterior panels

Covestro polycarbonates' transparency and impact resistance allow for new design elements using light and graphics for a new generation of front-ends and other exterior panels.

Mono-material headlamps

A novel headlamp concept based solely on polycarbonate materials simplifies construction, reducing cost, weight and space while increasing sustainability.

Seamless multifunctional displays

Covestro polycarbonates and films enable electronics-enabled interfaces, integrating touchscreens, controls and and ambient lighting in complex 3D forms.

Holographic films

With breakthrough optical films technology, Bayfol® HX photopolymer film enables new designs for head-up displays and automotive lighting.

WE CREATE THE MATERIALS THE FUTURE IS MADE OF (continued)



LIGHTING & LED

Illuminating sustainable performance and seamless design for homes to public spaces

Smart outdoor lighting

Engineered to survive heat, cold and impact, Makrolon® TC polycarbonate is a single material that reduces design complexity, integrating sensors, displays, antennas, cameras and more into public space and home security lighting.

Light management films

Makrofol[®] films make it possible to diffuse, reflect or guide light. Our black panel films help combine analog and digital elements into a seamless display, such as a speedometer cluster.

Ambient vehicle interior lighting

As display surfaces and touchscreens in vehicles increase due to digitalization, connectivity and autonomous driving, our polycarbonate films help improve designed ambiance.



WEARABLES & AR/VR

Empowering wearables for your daily needs with strength, durability and comfort

Smart glasses/optics

Lightweight and customizable, Bayfol $^{\rm 0}$ HX holographic film meets the optic quality demands of AR glasses.

Augmented reality holographic display

Sony chose Bayfol® HX photopolymer film to create 360-degree floating holographic AR images.

Wearables for medical applications

The Apollo wearable improves the body's resilience to stress. Makroblend® M525 PC+polyester blend keeps the device clean and comfortable for everyday use.



ELECTRIC VEHICLE CHARGING

Leading the charge in smart packaging and energy density for the growing EV infrastructure

EV battery packaging

In the shift to electrification, Covestro polycarbonates help maximize energy density while keeping battery cells safe and cool. They also offer dimensional stability, fire resistance and reduced density.

EV charging stations

Our polycarbonate resins and blends are used in both exterior and interior charging station components, including housings, display lenses, light guides, pedestals and plug housings.



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