

Application Development

To put some distance between themselves and their competitors, automakers are upping the ante each year when it comes to safety, performance, style and technology. This, combined with the growth of autonomous and electric vehicles, means that now, more than ever, auto OEMs are depending on tier suppliers to help bring advanced, cutting-edge and cost-effective solutions to the market. Fortunately, Covestro is with them every step of the way.

Today's automotive development cycle is fast-paced, complex and challenging. At Covestro, we have a long history of supporting customers throughout the entire process – from concept to market launch. In addition to our industry-leading materials portfolio, our experienced, global team assists customers with material selection, design and production support. Our design and processing assistance includes computer-aided engineering to simulate, optimize and validate product design and manufacturing processes. Fundamental industry focused application technology developments provide solutions to future automotive needs.



Advanced Process Development



Ideation and Concept Development



Feasibility Studies – Performance & Economics

Material Selection and Characterization



Computer-aided Engineering (CAE)





Part and Mold Design



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Application Technology

Development

Launch and

Production Support

Part design, mold design and processing are the nuts and bolts of the application development cycle. Many factors need to be considered during this phase, which spans initial development through fabrication. We consider the properties and characteristics of the Covestro material, then work with our customers to find a solution that optimizes the part's functional requirements, aesthetic needs and economics. We also help with mold design, anticipating mold-related considerations such as shrinkage and warpage. To produce the final part, we assist manufacturers in optimizing the production process to help them achieve the desired functional and aesthetic qualities.





Covestro LLC 1 Covestro Circle Pittsburgh, PA 15205 USA 412-413-2000

www.plastics.covestro.com plastics@covestro.com

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