

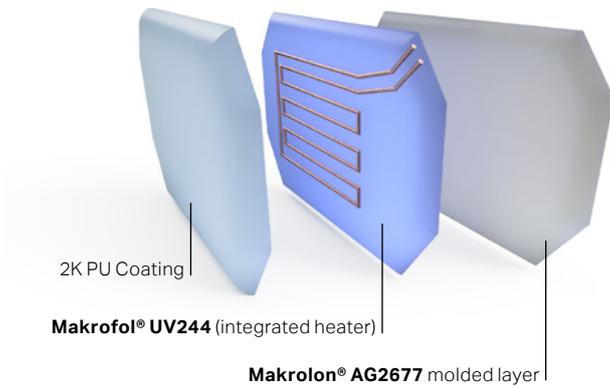


**Makrofol® Makrolon®**

**REINVENTING ELECTRIC  
VEHICLE FRONT ENDS WITH  
ENGINEERING POLYMERS.  
WHY NOT?**



## Material expertise meets iconic design

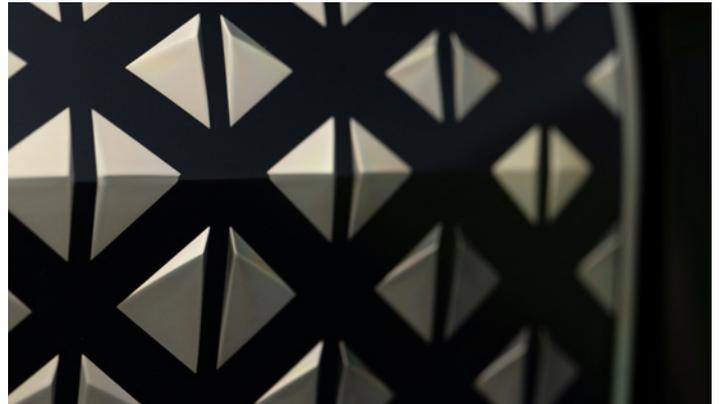


At Covestro, we supported BMW to create the iconic face of the iX fully electric SUV. As a result of this collaboration, the defrosting function was realized using a partial film insert of **Makrofol® UV244**. Heating wires were joined with the film before high pressure forming. The film insert was back-molded with **Makrolon® AG2677** to form the final part. The safe and reliable electrical contacting of the final part was enabled after injection molding. **Makrofol® UV244** offers a backup layer of UV protection in case of damage to the coated surface of the part.

## Enabling the future of front modules

From appealing décor to cutting-edge functionality, the combination of polycarbonate (PC) resin and film offers a wide range of possibilities for front modules, which may be further integrated with exterior lighting solutions and other applications:

- Seamless design & in-mold 3D patterns
- Sensor transparent resins & base films (ST)
- Hard coatings (HC)
- “Laser clear” colors (infrared range)
- Precise laser imaging
- Printed décor
- Black panel effects
- Anti-reflective (AR) coatings
- Heating technology integration



Ready to discuss your ideas with us? We are looking forward to creating the future of mobility together with you!



Covestro Deutschland AG  
Kaiser-Wilhelm-Allee 60  
51373 Leverkusen  
Germany

[solutions.covestro.com](http://solutions.covestro.com)  
[info@covestro.com](mailto:info@covestro.com)  
[films@covestro.com](mailto:films@covestro.com)

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, is beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise. [EMEA only: If the intended use of the product is for the manufacture of a pharmaceutical/medicinal product, medical device<sup>1</sup> or of pre-cursor products for medical devices or for other specifically regulated applications which lead or may lead to a regulatory obligation of Covestro, Covestro must explicitly agree to such application before the sale.] Any samples provided by Covestro are for testing purposes only and not for commercial use. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. <sup>1</sup>Please see the “Guidance on Use of Covestro Products in a Medical Application” document. Edition: 2022 · Printed in Germany