

PRESS RELEASE

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SABIC LAUNCHES AT NPE 2018 NEW FORMABLE HARD-COATED LEXAN™ MARGARD™ FHC SHEET FOR GLAZING APPLICATIONS TO COMPLY WITH UPDATED ECE R43 SAFETY REGULATION

SABIC, a global leader in the chemical industry, introduced here today at NPE 2018, booth S19001, LEXAN™ MARGARD™ FHC10 sheet, the latest addition to the company's expanding automotive glazing portfolio. This advanced new technology is engineered to comply with the stringent visibility, strength and abrasion resistance requirements of ECE R43 (Regulation No. 43 of the Economic Commission for Europe of the United Nations). It features a tough polycarbonate (PC) base with exceptional optical quality, combined with a unique, formable hard coating that is pre-cured sufficiently to allow processing like regular PC sheet. In addition to ECE R43 compliance, LEXAN MARGARD FHC10 sheet can enable customers to avoid post-coating operations and gives automotive OEMs and tiers a fresh new option for creating simple, curved glazing designs.

"Market analysts, such as [Grand View Research](#) in the United States, predict strong growth in automotive glazing, propelled by technological advancements in materials such as polycarbonate and continued demand for increasingly lightweight components – particularly in electric vehicles," said Peter Chedd, segment leader, Glazing Functional Forms for SABIC.

Unique Formable Hard Coating

LEXAN MARGARD FHC10 sheet's proprietary silicone-based formable hard coating uses dual-cure (thermal/thermal) technology. The coating is pre-cured to the point that it can be easily handled and fabricated like any regular PC sheet, but it maintains enough flexibility to be formed within specified limits. Following forming, using any of a variety of methods (drape forming, high-pressure forming, thermoforming, etc.), the coating requires post-curing for three hours at 130°C to optimize abrasion resistance and meet ECE R43 requirements. The advanced coating technology ensures excellent adhesion under exposure to temperature cycling, water and humidity.

LEXAN MARGARD FHC10 sheet also offers superior mechanical properties, including outstanding impact strength, as well as high optical quality. It features crystal-clear transparency with low ripple and distortion, including an extremely low number of optical defects. This advanced new product is also resistant to common chemicals, weathering and ultraviolet (UV) light.

Primary applications are moderately shaped glazing components for lower-production vehicles, where LEXAN MARGARD FHC10 sheet can be more cost effective than injection molding. Additionally, LEXAN MARGARD FHC10 sheet is a highly versatile product that can be used for non-automotive glazing, such as machine guards, cabin glazing for heavy equipment and many other typically formed and post-coated applications.

LEXAN MARGARD FHC10 sheet is initially available globally in 3-5 mm gauges. SABIC plans to make thicker gauges available at a later date.

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NOTES TO EDITORS

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ABOUT SABIC

SABIC is a global leader in diversified chemicals headquartered in Riyadh, Saudi Arabia. We manufacture on a global scale in the Americas, Europe, Middle East and Asia Pacific, making distinctly different kinds of products: chemicals, commodity and high performance plastics, agri-nutrients and metals.

We support our customers by identifying and developing opportunities in key end markets such as construction, medical devices, packaging, agri-nutrients, electrical and electronics, transportation and clean energy.

SABIC recorded a net profit of SR 18.4 billion (US\$ 4.9 billion) in 2017. Sales revenues for 2017 totaled SR 149.8 billion (US\$ 39.9 billion). Total assets stood at SR 322.5 billion (US\$ 86 billion) at the end of 2017. Production in 2017 stood at 71.2 million metric tons.

SABIC has more than 34,000 employees worldwide and operates in more than 50 countries. Fostering innovation and a spirit of ingenuity, we have 11,534 global patent filings, and have significant research resources with innovation hubs in five key geographies – USA, Europe, Middle East, South Asia and North Asia.

The Saudi Arabian government owns 70 percent of SABIC shares with the remaining 30 percent publicly traded on the Saudi stock exchange.

PHOTOS AND CAPTIONS



SABIC's new LEXAN™ MARGARD™ FHC10 sheet, the latest addition to the company's expanding automotive glazing portfolio, can be used for moderately shaped glazing components for lower-production vehicles where injection molding is less cost effective. Additionally, LEXAN MARGARD FHC10 sheet is a highly versatile product that can be used for non-automotive glazing, such as machine guards, cabin glazing for heavy equipment and many other typically formed and post-coated applications.

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