

PRESS RELEASE

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SABIC INTRODUCES LEXAN™ CXT RESINS WITH ADVANCED HIGH-CLARITY, HIGH-HEAT POLYCARBONATE COPOLYMERS

SABIC, a global leader in the chemical industry, has unveiled a new line of high-clarity, high-heat, injection moldable polycarbonate copolymer resins. LEXAN™ CXT resins can offer a unique balance of high temperature resistance, high flow and excellent color stability under extreme molding conditions, together with a high refractive index.

LEXAN™ CXT resins can be used in optical applications in the electronics, consumer & industrial, and healthcare industries. Typical products in the first two areas include lenses and small sensors that detect visible light; in healthcare, the materials answer the call for excellent optical quality and the ability to resist high temperatures involved, for example, when over-molding clear face shields with silicone rubber.

Global industry trends such as miniaturization and the need to integrate more functions into less space are driving a growing demand for the level of performance offered by LEXAN™ CXT resins. With Vicat B120 softening temperatures as high as 190°C and glass transition temperatures (Tg) of up to 195°C, LEXAN™ CXT resins can provide converters with the potential to injection mold parts that can withstand demanding assembly processes, such as cold reflow or wave soldering onto printed circuit boards. Parts will also stand up to prolonged exposure to high service temperatures.

LEXAN™ CXT resins, which can have a refractive index (RI) over 1.6 as well as high transparency (greater than 89% in the visible and infrared spectra at a thickness of 1 mm), can help enable the production of very small lenses (such as those used in mobile phones) that can be assembled onto a PCB that then goes through various soldering operations. The very good thermal stability of the LEXAN™ CXT resins can help prevent deformation or discoloration.

Feedback from SABIC customers over the course of the development of LEXAN™ CXT resins indicates numerous other potential benefits. These potential benefits include: improvements in productivity and system costs through shorter cycle times; improved dimensional accuracy;

fewer production stoppages and lower reject levels; and the potential to create components with more complex geometries, thinner and longer walls, and improved textural definition.

“The launch of this new portfolio is the result of us taking heed of the current and future needs of our key customers in different segments and then implementing key innovations in resin and product technology to respond to these challenges,” said Joshua Chiaw, Director at SABIC.

The new LEXAN™ CXT resins will complement existing LEXAN™ polycarbonate copolymer specialty resins, which include EXL, XHT and SLX resins. These can be distinguished, respectively, by particularly good low-temperature impact resistance, heat resistance in clear and opaque forms, and high weatherability.

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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.

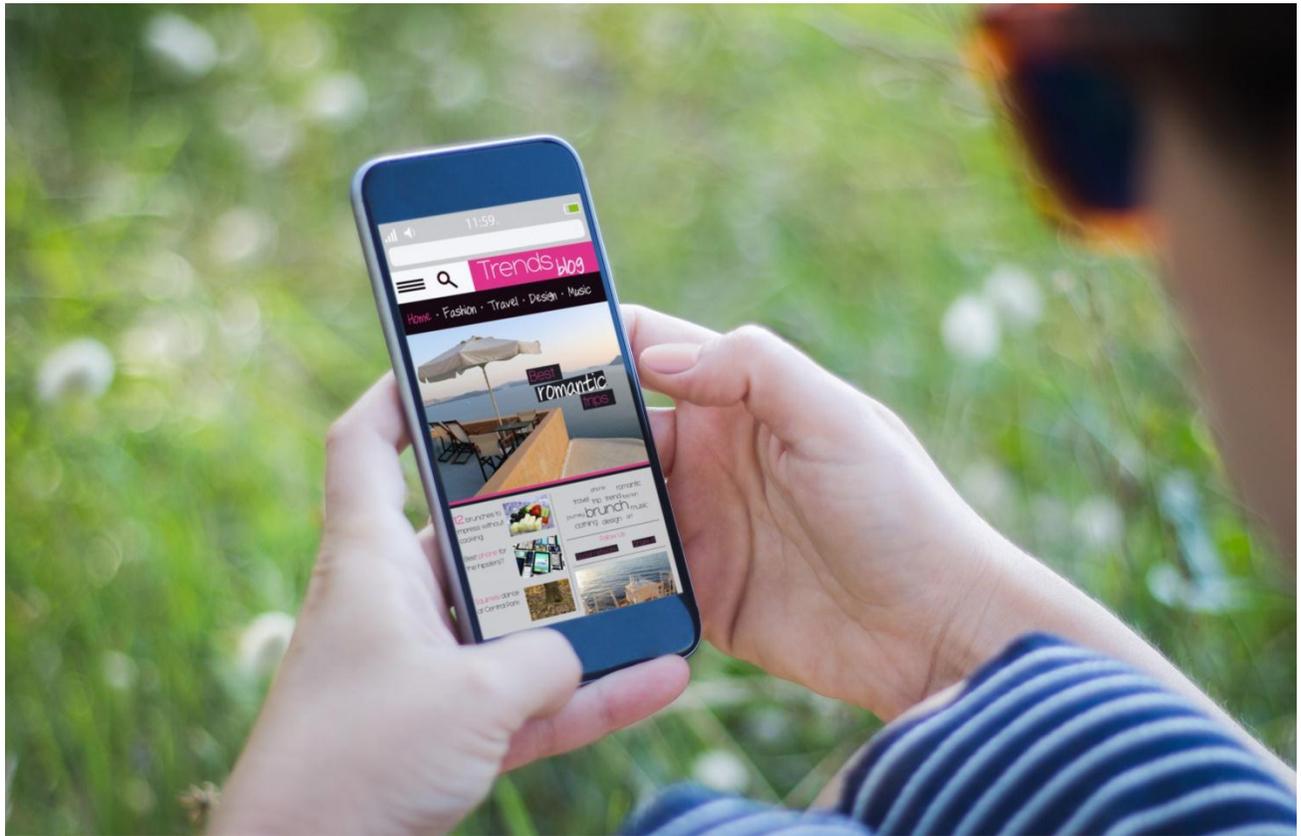
We support our customers by identifying and developing opportunities in key end markets such as construction, medical devices, packaging, agri-nutrients, electrical and electronics, transportation and clean energy.

SABIC recorded a net profit of SR 17.8 billion (US\$ 4.8 billion) in 2016. Sales revenues for 2016 totalled SR 132.8 billion (US\$ 35.4 billion). Total assets stood at SR 316.9 billion (US\$ 84.5 billion) at the end of 2016. Production in 2016 stood at 72.7 million metric tons.

SABIC has more than 35,000 employees worldwide and operates in more than 50 countries. Fostering innovation and a spirit of ingenuity, we have 12,191 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



LEXAN™ CXT resins can be used in optical applications in the electronics industries.

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