



FACT SHEET

CHINAPLAS 2023, Shenzhen, China, April 17, 2023

ELECTRICAL & ELECTRONICS

OVERVIEW

The market for consumer electronics is expanding at a rapid rate. As the market continues to evolve, materials providers face new challenges in meeting new requirements for innovation. As a premier supplier of high-performance material solutions for the consumer electronics industry, SABIC recognizes this need and shares a dual commitment to consistent quality and cutting-edge innovation.

With its significant potential to reduce emissions and decarbonize energy supply chains, electrification offers an important strategy for the world to reach its net zero emissions goals. At the same time, the electrification of society has presented new challenges in the creation of the infrastructure needed to support this shift, as suppliers are tasked with providing smaller and lighter components that facilitate better energy storage and management, cost effectiveness, and product life.

SABIC's expertise and broad portfolio of materials have contributed to the development of many breakthroughs in electronic device designs. Today, the company continues to create more sustainable solutions leveraging TRUCIRCLE™ initiatives while ensuring critical functionality, helping customers address today's top challenges in quality and sustainability.

INDUSTRY LANDSCAPE

The global electrical and electronics industries are driven by a number of factors, such as the growing tendency towards digitization and automation, the rising level of disposable incomes, and the increasing prevalence of personal electronic devices such as smartphones, laptops, and other personal electronic devices. The impact of the COVID-19 epidemic has also been felt by the market through the meteoric rise in demand for devices that can be used for home entertainment, remote working and learning, and health and fitness.

According to data provided by the Ministry of Industry and Information Technology, China ranked first globally in the production and sale of consumer electronics in 2022. Such high demand is driving an accelerated pace of both innovation and competition in the industry, and manufacturers must remain ahead of the pack in terms of R&D, implementation, and production capabilities if they are to succeed.

The rapid pace of development in the electrical and electronics market is driving a constant demand for materials that combine excellent mechanical properties with versatile colorability and processability. Materials providers must ensure that their solutions can be used to create cost-effective products that also meet consumers' expectations for style, ease of use, and sustainability.

SABIC SOLUTIONS FOR ELECTRICAL & ELECTRONICS

- Microsoft's Ocean Plastic Mouse **in collaboration with SABIC is a successful case** using mechanically recycled ocean plastic. As a part of SABIC TRUCIRCLE™ sustainable solutions, it can help remove valuable use plastic from oceanic waterways or adjacent shores. A 2022 Edison Awards Silver winner, Microsoft's Ocean Plastic Mouse, has an exterior shell made from SABIC's XENOY™ PC/PBT resin that contains 20% recycled ocean plastic. This joint effort resulted in a final version that exceeded Microsoft's initial 10% goal, containing 20% recycled ocean plastic by weight in its external casing.
- **SABIC LEXAN™ and CYCOLOY™ resin for Smart Home equipment:** SABIC has established a good relationship with leading companies in smart home market for smart camera, doorbell, temp controller and other applications. With the excellent mechanical properties, rich color selection and excellent processing capability, SABIC LEXAN™ and CYCOLOY™ product portfolio help customers to make products more compact, lighter and more fashionable.
- **LEXAN™ Post Consumer Recycle Efr Film Grades:** LEXAN™ Sheet and Film products, basing on high recycled content from post-consumer usage, can improve process ability and end-use properties. The films have good formability, excellent mechanical and electrical properties, good dimensional stability at high temperatures, and high flammability rating. As insulation materials, the films are suitable for power supplies, disk drives, bus bars, televisions/monitors, PC boards and commercial equipment. LEXAN™ EFR535 (30%PCR) and EFR565 (60%PCR) are PCR flame-retardant polycarbonate films, presenting excellent eco solutions for global Electrical & Electronics manufacturers to go beyond current ecological directives by voluntarily eliminating halogenated additives in their products, the PCR films also offer equivalent performance to our virgin polycarbonate films.