



FACT SHEET

CHINAPLAS 2023, Shenzhen, China, April 16, 2023

BUILDING & CONSTRUCTION

OVERVIEW

The key material and application examples on display address major challenges faced by the building and construction industry in meeting the needs of a growing and increasingly urban population while contributing to the creation of a low-emission, efficient, and resilient industry.

In response to these megatrends, SABIC has developed a number of specialized thermoplastic resin and sheet products with a focus on the four building and construction market segments including energy solutions, pipe solutions, structural glazing, and solid sheet.

INDUSTRY LANDSCAPE

The building and construction industry is one of the cornerstones of the Chinese economy and its growth is expected to continue into the foreseeable post-pandemic future. Although the construction industry in China has recorded strong growth with increasing government support of infrastructure projects, the industry still faces a number of ongoing challenges. Along with its focus on infrastructure spending to boost the economy, the Chinese government is also planning a transition towards a smarter, greener, and safer construction industry over the next three to four years.

Meanwhile, as the world continues to urbanize, sustainable development depends increasingly upon the successful management of urban growth, especially in developing countries like China where the pace of urbanization is projected to be among the fastest worldwide. Many countries will face challenges in meeting the needs of their growing urban populations, including needs towards the protection of the environment and natural resources and the handling of solid waste generation and energy systems, among others. Building economic, social, and environmental resilience - including appropriate governance and institutional structures - must therefore be at the heart of cities in the future.

SABIC's broad, global portfolio of material solutions can be used in a number of structural applications in the building and construction industry, helping developers meet demand for smarter and more sustainable solutions.

SABIC SOLUTIONS FOR BUILDING AND CONSTRUCTION

- **SABIC® HDPE P4200RT** is a high-density polyethylene (HDPE) with high melt viscosity for extrusion. The product provides excellent stress crack resistance properties (ESCR) combined with good long-term hydrostatic strength, high heat and extremely high extraction stability. It fulfils the requirements of DIN 16833 / ISO 24033 for PE-RT Type II. The material is classified as MRS 10 (PE100) according to ISO 12162.
- **LEXAN™ EXTRITE™ sheet** with proprietary coatings on both sides is a solid transparent material that provides the required abrasion, scratch and weathering resistance for a growing number of demanding outdoor applications, such as bus shelters, sound walls and walkways. The intrinsic properties of LEXAN™ polycarbonate combined with both sides protective layer results in improved abrasion, chemical and UV resistance. It has an expected lifetime of at least 30 years, comes with a 15 year written limited warranty and is 100% recyclable.