



# FACT SHEET

CHINAPLAS 2025, Shenzhen, China, April 15, 2025

## BETTER LIFE QUALITY

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### OVERVIEW

As a continuously evolving material, plastics have significantly enhanced modern life, and its production has outpaced that of almost every other material since the 1950s<sup>1</sup>.

Plastics are widely used across industries such as household goods, electronics, healthcare, and infrastructure. After decades of development, plastics have become an indispensable part in shaping modern lifestyles, while consumer expectations for plastics with higher performance are also on the rise. In response, SABIC offers innovative materials and solutions to achieve long-term improvements in quality of life and environmental responsibility.

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### INDUSTRY LANDSCAPE

The global plastics market is experiencing steady growth, fueled by increasing demand across key regions and industries. In 2023, the global plastic market size was estimated at \$624.8 billion<sup>2</sup>. China is the world’s largest plastic producer by far, accounting for around one-third of global plastics production<sup>3</sup>.

Across industries in various aspects, plastics are tailored to feature diverse properties that meet continuously evolving trends, where lightweight, durable, high-performance and sustainable properties are essential. There are still industry-specific requirements challenging current material technologies. For example, footwear demands rapid, diverse material upgrades; aerospace requires strict certification; personal care & hygiene needs dimensional stability and sterilization resistance, while oil wells challenge materials with high pressure and corrosion.

SABIC works closely with customers to address the evolving market needs with differentiated applications across key sectors such as Building & Construction, Hygiene & Healthcare, Packaging, and Electrical & Electronics. Through comprehensive product portfolios and advanced materials, SABIC is collaborating with its partners to improve quality of life and shape a more efficient, sustainable, and better future.

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<sup>1</sup> World Economic Forum, 2019

<sup>2</sup> Plastic, Grand View Research, 2023

<sup>3</sup> Statista, 2025

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## SABIC SOLUTIONS

- **SABIC's One-Stop Packaging Solutions:**
  - SABIC provides **advanced flexible and rigid packaging solution:**
    - **For flexible packaging**, SABIC offers one-stop PE solution including LLDPE, mLLDPE, LDPE, HDPE and POP. HDPE has good processability; POP offers good seal performance, and mLLDPE offers good toughness like dart impact and puncture resistance.
    - **For rigid packaging** like thin wall cup and containers, SABIC offers a comprehensive PP solution, including homoPP, RCP and ICP. RCP offers good clarity and gloss, and ICP offers good impact strength.
    - **For both flexible and rigid packaging**, SABIC introduces TRUCIRCLE™ sustainable portfolio, including design for recyclability, certified bio-based renewable and certified circular polymer, mechanical recycled polymer, and closed-loop initiatives.
  - **For CPP film**, SABIC offers TerPP-based solutions with good gel control, low odor, and optimized sealing properties. With a low seal initiation temperature and good processability, these materials improve production efficiency while maintaining high-quality standards. This solution supports flexible packaging manufacturers in achieving good performance and operational stability.
  - **For cosmetic packaging**, SABIC® PP compound 1311 is compliant with FDA regulations to enhance product safety. It has good aesthetic, high gloss, and compatibility with vacuum-plated process.
- **SABIC provides a comprehensive polymer portfolio for the home appliance industry**, ranging from PE and PP to ETP. Our solutions help achieve diverse and flexible designs, while endowing products with different functions, such as lightweight, good balance of stiffness and toughness, good optical performance and good processability. SABIC has partnered with industry-leading home appliance OEMs to successfully apply solutions to various household appliances such as washing machines, dishwashers, hair dryers, beauty instruments, electric irons, and so on.
- **SABIC offers ULTEM™ resin for passenger service unit of aircraft.** These aircraft interiors are fully compliant with industry regulations, including ABD 0031, BMS, FAR25.853, OSU 55/55 heat release tests, and NBS smoke density tests. It also features good processability allowing thinner wall constructions and lightweight, along with its low density, high stiffness and strength.
- **SABIC develops materials for healthcare and hygiene applications**, varying from eye drop ampoules, syringe, blood collection tube, medical measuring cups to vaccine delivery devices. The comprehensive portfolio includes PE, PP and engineering thermoplastics (ETP) which can be certified for demanding medical applications and show good processability, mechanical property and safety, enabling our customers to develop their own innovative and high-quality products.
- **SABIC provides PP foam materials for sandwich panels**, offering a strong and insulating core solution for the building & construction and transportation industries. These panels are generally lighter and tougher than incumbent materials and can be widely recycled. SABIC offers dedicated grades for EPP – PP 6622PT – and extrusion foam – PP-UMS 561P respectively. Both EPP beads and PP foam panels can serve as sandwich core layers. SABIC® PP 6622PT has a balance on its melting temperature and flexural modulus, reducing production variation and saving energy consumption during processing. SABIC® PP-UMS 561P is an ultra-melt strength PP grade that enables good foaming performance and lightweight properties.

- **SABIC® P4200RT is an HDPE for downhole oil lined pipes** which provides good environmental stress-track resistance properties (ESCR), strong long-term hydrostatic strength and heat resistance. It fulfills all the requirements of DIN 16833 / ISO 24033 for PE-RT Type II. SABIC® PE-RT II P4200RT has been used in oil field applications for one year, with no pipe breakage or collapse observed so far. This solution saves end users from frequent pipe replacements while improving the overall efficiency of oil field operations.
- **SABIC performance materials provide an integrated solution for the footwear industry**, helping customers create more comfortable and more durable shoes. From shoe lasts, insoles, midsoles, to outsoles, SABIC offers a diverse range of materials, including EVA, POE, POP, EPDM, HDPE, PBR etc., to meet various performance needs. Mid-soles widely utilize SABIC's comprehensive portfolio of polyolefins to support multiple functions. To accommodate different end customer needs, SABIC's POE solutions offer various options of melt index and density, as well as different copolymer choices, such as ethylene-octene and ethylene-butene copolymers.