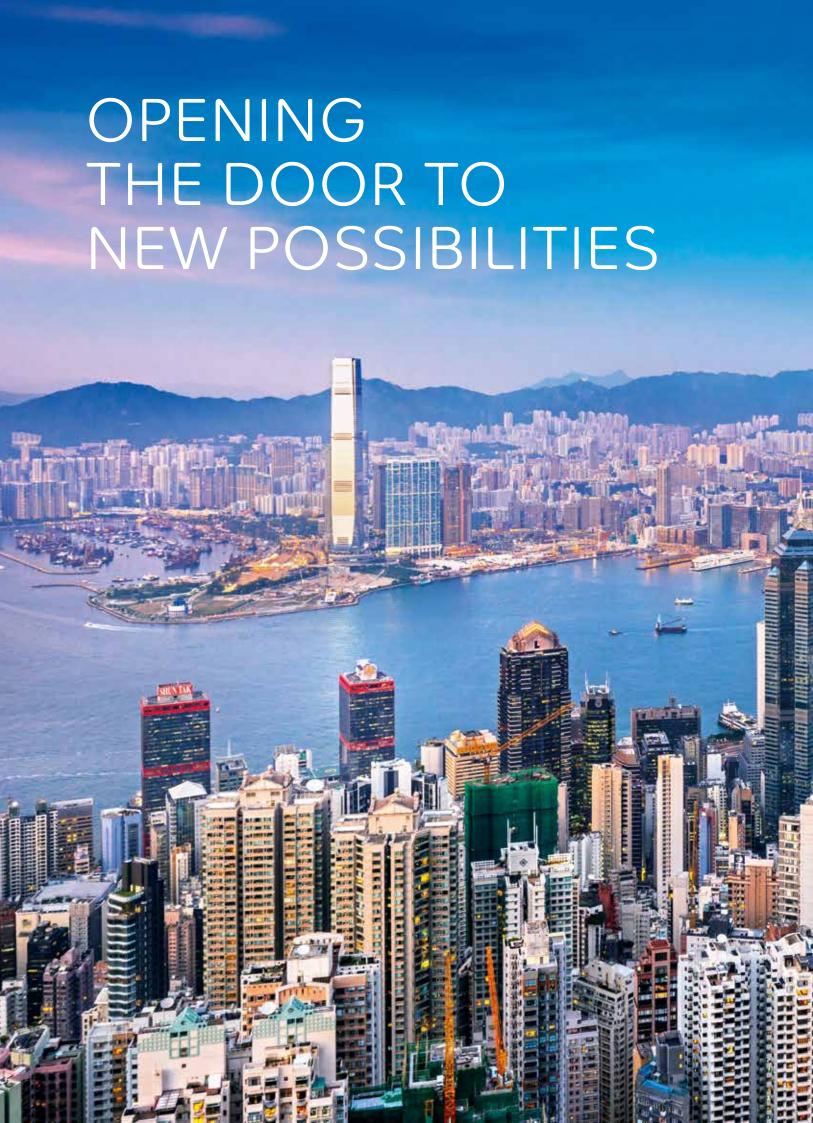


## EXPAND AND PERFORM

**FOAM SOLUTIONS** 





The SABIC story started in 1976 in Saudi Arabia. Our aim was to utilize the natural gas resources in the region and transform them into products of value for people worldwide.

From the very beginning, maintaining a healthy environment and handling valuable resources, such as water and gas, responsibly has been at the heart of everything we do. While our roots are in the Middle East, our challenges, responsibilities, and opportunities are global.



Our background has given us years of first-hand experience dealing with the challenges of managing valuable natural resources—resources that are becoming scarce as the world's population grows and consumption increases.

Foam and lightweight solutions are essential to our endeavor for more efficient use of materials, energy savings and, at the same time, enhanced properties.

We are committed to ongoing product and operational excellence whilst ensuring optimal performance of foams in their various applications.

SABIC's experience and drive for innovation make us a strong, reliable partner who can provide you with advanced high quality materials for foams—and open the door to new possibilities.

At SABIC, we produce raw materials of the highest standard, from polyolefins and polystyrene to engineering plastics. You and your customers can depend on materials that reliably deliver consistent, high performance properties to build competitive advantage.



### FOAM

### THE SABIC WAY



Polymeric foams are widely used in numerous areas that encompass Building & Construction, Automotive, Packaging, Sports & Leisure and more. Enhanced physical properties and excellent foamability of the polymers themselves are key in enabling more efficient material usage and energy saving.

SABIC is committed to the ongoing development of innovative solutions beyond its already established foam solutions portfolio. Our dedicated global teams will enable our customers to meet their needs with solutions that are more focused and more quickly implemented.

SABIC, an innovator in the plastics industry, is one of the world's leading suppliers of polyethylene, polypropylene, polycarbonate, and other advanced thermoplastic resins.

Our diverse product portfolio reflects our customer-driven focus and our commitment to developing innovative and high quality foam solutions that are designed to last.



## PACKAGIN **CHALLENGES** The macroeconomic environment has been challenging for the packaging industry in recent years. Environmental awareness among consumers, their desire for convenience, and their cost consciousness, are all increasing. Consumer goods producers have become more global and gained more buying power. These forces put pressure on the packaging producer's business model to deliver. CONSUMER CONVENIENCE AT LOW COST LESS PACKAGING WASTE

### PROPERTIES THAT PROTECT THE BEST

### SOLUTIONS

SABIC® LDPE
SABIC® EPS
SABIC® GPPS
SABIC® PP-UMS

### SABIC SOLUTIONS

Reducing waste, cutting costs, meeting the expectations of consumers and stakeholders: in today's world, with an increasing focus on e-commerce, companies are designing packaging to use as little material as possible.

For economic and societal sustainability reasons, companies design packaging to use just enough material to ensure that food and other goods survive the distribution chain and are delivered to consumers in good condition.

Polymeric foams can support weight reduction needs, whilst maintaining the required packaging property profile. Both polystyrene and polyolefin foams are therefore widely used within the packaging industry, providing protection for food and non-food products. Different polymeric foams can address diverse requirements such as shock absorption, weight reduction, thermal insulation, chemical resistance, food contact safety, and cost-efficiency.

SABIC® PP-UMS (Ultra Melt Strength) resin – a completely new generation of melt strength polypropylenes, is unique in the market, with a melt strength of more than 65 cN and outstanding foam-ability. It can be used by all industry segments as a building block to develop new foaming solutions that enable an unprecedented level of light weighting.

SABIC's foamable low density polyethylene (LDPE) and polystyrene (PS) product lines are ideally suited to meeting your challenges of enhanced properties at the lowest possible weight, using various foaming technologies.



### PROPERTIES THAT PRESERVE THE BEST

### SOLUTIONS

SABIC® LDPE

SABIC® EPS

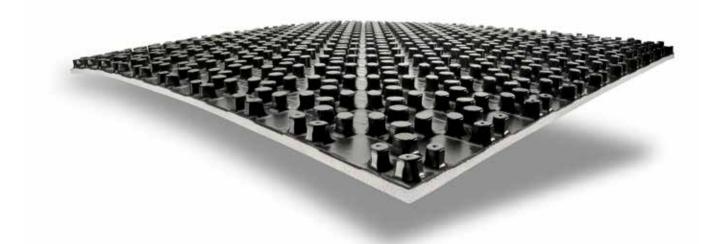
SABIC® GPPS

SABIC® PP-UMS

SABIC® SUPEER™

SABIC® FORTIFY™

SABIC® COHERE™









Preserving energy requires outstanding insulation properties. The current building and construction environment is providing a challenge to create projects with carbon footprints as small as possible.

Building insulation helps in reducing energy demand for cooling and heating of buildings. The prevention of unnecessary consumption of energy thereby helps mitigate CO<sub>2</sub> emissions.

Thanks to their excellent insulation performance, polymeric foams are the energy

efficient solution for supporting sustainable systems in building and construction.

Valuable energy can be conserved by using polyolefin foams to insulate central heating and air conditioning cooling pipes. Foam insulation surrounding pipes is light-weight and easy to install.

Polyolefin foam sheets are also used on concrete floors under tiles or parquet floors, not only saving energy but also absorbing sound.

## BUILDING & CONSTRUCTION **CHALLENGES** Appropriate insulation in buildings is the most effective route to saving on heating and cooling costs, as well as managing the effects of hot, cold, arid, or damp climates. Insulation can significantly decrease thermal transfer, reducing cooling or heating requirements by as much as 75%. Increasing demands for energy preservation mean that more heat insulation for walls, floors, roofs, and pipes is required. REDUCTION IN ENERGY CONSUMPTION



### PROPERTIES THAT PERFORM THE BEST

### **SOLUTIONS**

SABIC® LDPE
SABIC® PP
SABIC® PP compounds
SABIC® PP-UMS
STAMAX™ resin (LGF PP)
CYCOLOY™ resin (PC/ABS)
LEXAN™ resin (PC)

### SABIC SOLUTIONS

Foam materials from SABIC possess properties that can make it possible for the automotive industry to meet a variety of needs: weight and cost reduction, strength and stiffness; and improved noise, vibration and harshness (NVH) performance.

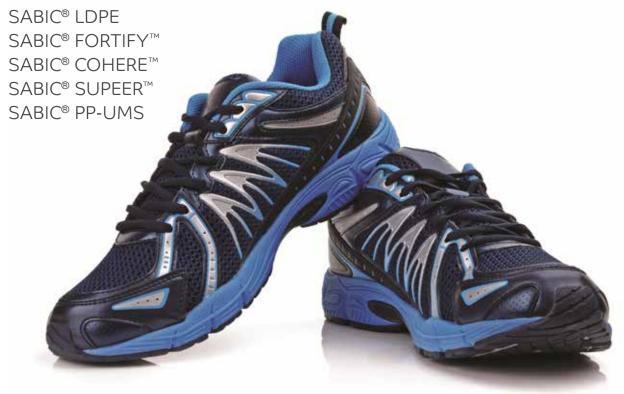
Of utmost importance for automakers, polymeric foams are inherently lightweight – allowing the industry to design low-emission, fuel-efficient vehicles. These material solutions also offer excellent energy absorption, damping and acoustic insulation – allowing drivers and passengers to experience even more comfort and peace of mind during the ride.

Because of these characteristics and what they make possible, foam materials are at work today in a diverse range of automotive applications – from bumpers, air ducts and instrument panels to headliners, door panels, gaskets and more.



### PROPERTIES THAT PROLONG THE BEST

### **SOLUTIONS**



### SABIC SOLUTIONS

The Sports & Leisure industry is a big user of foamed products that provide the core of many applications, as well as for total end-product solutions.

Low weight, convenience and endurance combined with structural strength and good aesthetics are key properties for a wide range of end products.

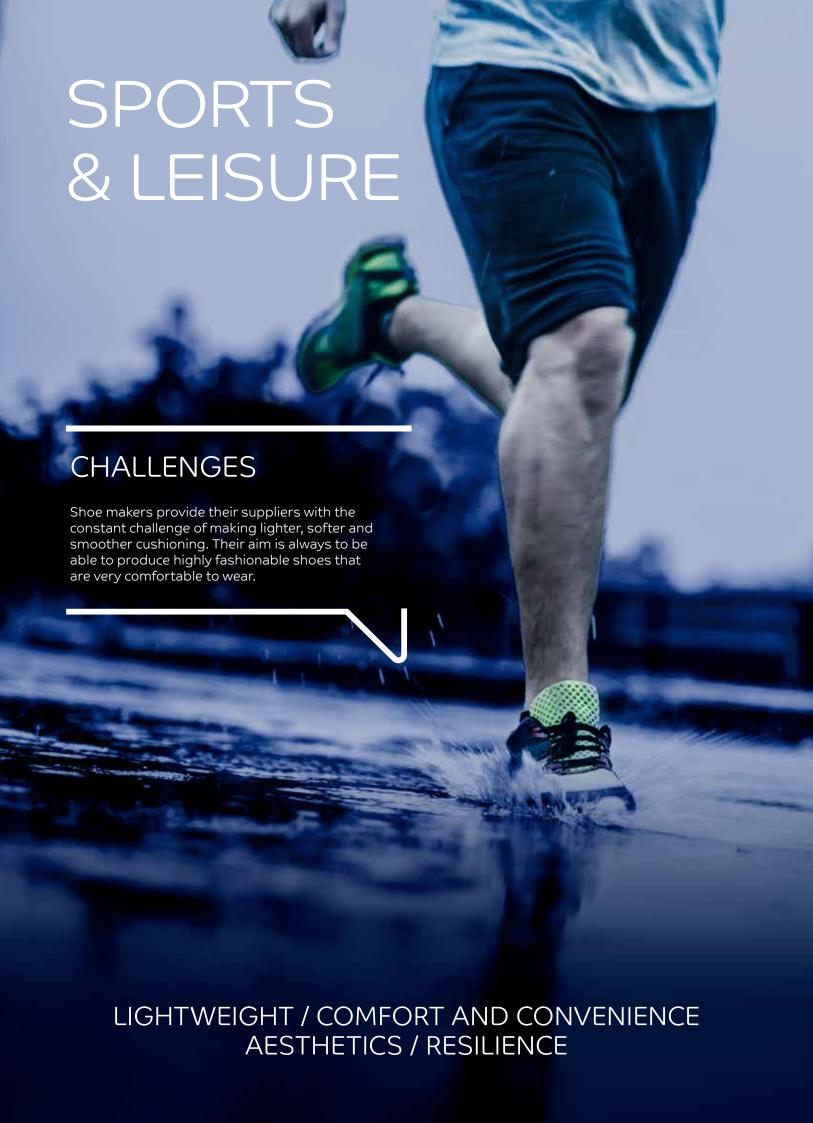
SABIC's diverse product portfolio gives our customers a multiple choice of solutions from which they can find the best fit for their end user applications.

Polymeric foams are widely used for the footwear industry.

Midsoles made in diverse polymeric foams play an important role in addressing challenges in this sector.

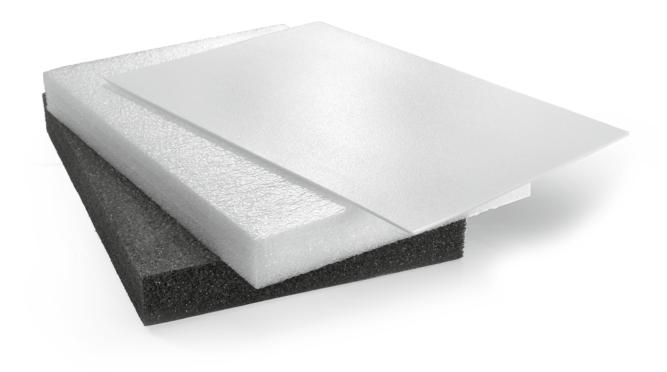
SABIC's polyolefin add plastomer (COHERE) polyolefin elastomer (FORTIFY) and metallocenebased linear low-density polyethylene (SUPEER) products provide comprehensive solutions that respond to many important performance challenges for midsole makers, in terms of low weight, softness, and wearer comfort and convenience. On top of that, they help meet consumer expectations for shoes that are resilient, built to last, and have impeccable aesthetics.





# WE DRIVE YOUR PERFORMANCE

- THROUGH BUILDING VALUABLE, LONG-TERM CUSTOMER RELATIONSHIPS
- ENSURING LONG-TERM DEPENDABILITY
- AS AN INNOVATOR IN FOAM
- WITH A DEDICATED FOAM INNOVATION CENTER AND A GLOBAL FOAM MARKETING TEAM
- DEVELOPING POLYMERIC FOAM PRODUCT SOLUTIONS WITH OUR CUSTOMERS AND VALUE CHAIN PARTNERS



### LEADING FOAM SOLUTION PROVIDER

Operating globally, SABIC provides extensive product solutions and a spectrum of services to customers in more than 100 countries across six continents. SABIC has been a dedicated key supplier in the foam segment for more than 35 years and is known for building strong, long-term partnerships. SABIC has a network of innovation hubs around the world, including a dedicated Foam Innovation Center, continuously working to improve quality and deliver ground-breaking material solutions for a multitude of applications.

Over the years, we have grown to become a strong innovation partner. We are able to provide you with local expertise and a reliable supply of our best polymeric foam product solutions.

### RELIABLE PARTNER

To meet your needs now and in the future, we are continuously improving and further developing our polymeric foam product solutions. We are ready to explore new boundaries with you, by supporting your business goals and ensuring faster time to market. You can depend on SABIC as a proactive partner to

understand your product needs andprovide innovative solutions that address the future needs of the foam and light weighting industry both today and in the years to come.



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