

FACT SHEET

CHINAPLAS 2021, Shenzhen, China, April 13, 2021

PACKAGING

OVERVIEW

With improvements in modern living, consumers and retailers demand packaging that not only complies with safety regulations but also exhibits higher performance and higher production efficiency. At the same time, increasing awareness of environmental protection issues is bringing about changes to sustainability practices in the packaging industry.

SABIC is committed to continuous innovation in new materials and processing expertise while working closely with value chain partners to achieve success with differentiated applications.

INDUSTRY LANDSCAPE

By 2050, the global population is expected to grow by another two billion to reach 9.8 billion. This will increase pressure put on global food production and water supply. Meanwhile, a tremendous amount of food is wasted during the transportation and handling process. Packaging is crucial, particularly in helping to reduce wastes in the global food supply, and in protecting goods for consumers while complying with ever more stringent regulations for food safety and consumer safety.

At the same time, the trend for 'consumption upgrade' demonstrates that consumers are becoming more demanding when it comes to packaging since their needs are no longer restricted to storage and protection. Instead, we find consumer needs have expanded to packaging being aesthetically pleasing, convenient, traceable, environmentally friendly and heat-preserving whilst ensuring that products retain their freshness. Consumer expectations are also driving brands to create packaging that is sustainable, distinctively shaped, hygienic and easy to open. On top of that, packaging must have outstanding graphics. These challenges need to be met whilst simultaneously lowering weight and cost with faster production cycle times. There is also the need to downgauge and increase recyclable material in packaging to minimize wastes and environmental impact.

SABIC SOLUTIONS FOR PACKAGING

- **SABIC® BX202 BOPE dedicated resin** is designed for BOPE film application. It facilitates mono-material PE structures, enabling 100% recycling and closing the circular economy loop. It has excellent processability and is suitable for a commercial BOPP line. It also exhibits very good planarity and printability, thus making it possible for attractive graphics customization. Additionally, it has excellent toughness and stiffness, improving package integrity.
- **SABIC PP 5212P** is a high stiffness PP homopolymer grade, specially developed for bi-axially oriented PP (BOPP) film extrusion with a very specific molecular structure design. PP 5212 BOPP film provides high stiffness performance, which has the potential for downgauging at a 10-15°C higher heat resistance than normal BOPP film enables. PP 5212 BOPP film creates a wider sealing

window for lamination film application. PP 5212P is good for use in the outer layer of BOPP film and can be used as a core layer in co-extruded film and/or as base material for plain films used for label film, stationary, dry food bags, synthetic paper and heat sealed packaging films.

- **SABIC COHERE™ S400** is a newly developed grade for protection film. With excellent processability, film flatness and good gel control, it is suitable for 3-5gf/25mm low cling force self-cling protection film areas. COHERE S400 also can be used in monolayer or multi-layer film structures to enhance heat-sealing properties, clarity, toughness, flexibility and elasticity in food packaging and industrial packaging. With SABIC proprietary technology, COHERE S400 gives customers more choices for further improving their film performance in self-cling protection film and other flexible packaging areas.
- **SABIC FLOWPACT FPC70T** is a polypropylene impact copolymer designed for the high speed injection molding process. It enables easy mold filling for short molding cycle times. It contains a nucleating agent and antistatic agent and is free of phthalate, thus offering more consumer safety and regulatory compliance. In addition to very high flowability and good organoleptic performance, it has high top load strength & stiffness for high stackability. SABIC PP FPC70T can be applied to thin wall packaging with very good impact resistance for low temperature storage such as cheese and yogurt tubs. At the same time, it can also be applied to packaging structures that require good stiffness at high temperatures for hot filled applications, such as hot pot food containers.