

SABIC® BOPE POLYMER FOR FLEXIBLE PACKAGING

Flexible packaging is one of the fastest growing areas within the packaging industry. SABIC is introducing SABIC® BOPE polymer, engineered specifically biaxially oriented to be used on a conventional tenter frame production line. This new resin supports easy and full recyclability of the flexible packaging through mono-material structure made from PE without compromising the packaging integrity. This new solution aimed to overcome the limitations of conventional PE film.

DESIGN FOR RECYCLING

The new SABIC® LLDPE BX202 polymer for producing biaxially oriented polyethylene (BOPE) films on tenter frame lines supports recyclability by using mono-material PE structures in multilayer films. This film offers very good printability, high mechanical properties and toughness for strong packaging reliability. It has one of the highest levels of sealing integrity to prevent leakage and reduce food waste. This new product is also available as certified circular and certified renewable polymer.

Specific properties of this new material is tested by SABIC, which includes the sealing (including SUPEER™ or COHERE™ grades) performance. The resulting BOPE film can be manufactured in white color, and offer possibility with anti-fog properties. It is also suitable for metallization and coating. BOPE films are typically used for food packaging of confectionary, snacks, dried foodstuffs, as well as for non-food packaging for personal care products.

POTENTIAL BENEFITS



DESIGN FOR RECYCLABILITY

- Opportunity for mono material PE structures, making the packaging easy to recycle
- Available as certified circular and certified renewable polymer



PROCESSING & RELIABILITY

- Very good planarity and printability
- High mechanical properties and toughness
- Potential for class leading sealing integrity helping to prevent leakage thus reducing food waste



ECONOMICS & PERFORMANCE

- Down gauging opportunities compared to blown PE film
- Can be produced on a conventional BOPP tenter frame line
- Offers higher throughput compared to standard blown PE film



CONSUMER CONVENIENCE

- Potential to get unique controlled linear tear direction feature for ease of opening of the packaging

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