

SABIC® BOPE POLYMER FOR FROZEN FOOD PACKAGING

SABIC® TF-BOPE polymer, engineered specifically to be used on a conventional BOPP tenter frame production line, 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; offering higher throughput and down gauging compared to blown PE film process.

POTENTIAL BENEFITS

FOR CONSUMER:

- Controlled tear direction and low tear strength providing easy opening in one direction.
- Better see-through clarity of packed product due to higher light transmission and lower haze.
- High gloss contributing to high end packaging appearance.
- Potential reduction of packaging material beneficial for the environment.
- 100% recyclable packaging - suitable for PE recycling streams.

FOR PACKERS:

- Accepting broad processing window - robust sealing performance.
- 20µm film tested up to 1kg fill load. Higher thickness can be achieved by higher fill loads.
- Realizing increased packaging speed via decreased sealing / cooling time.
- Thinner film utilize longer film length on same roll size providing a higher productivity: longer run times, less roll changes.

- Film roll efficiency also reducing logistic handling and storage space and transport cost.
- Good puncture resistance and other mechanical film performance.
- Good hot tack and options of lower Seal Initiation Temperature (SIT) film types.

FOR CONVERTORS/BRAND OWNERS:

- Good printability.
- Cost saving opportunity.
- Down gauging proving higher yield (more film surface per kg).
- Supporting design for recyclability needs
- Less consumption of plastic material, supporting plastic pact / brand owner and retailer pledges
- Lower packaging tax due to reduction of material consumption.
- Optimized packaging design balance by improved film usage / pack weight ratio.
- With less material similar protection and preservation of packed goods vs existing solutions



SABIC® BOPE POLYMER FOR FROZEN FOOD PACKAGING

SABIC® TF-BOPE polymer produced on a conventional (BOPP) tenter frame production line creates a thin bidirectional stretched polyethylene film with strong performance.

BOPE COMPARED TO BLOWN PE FILM

Comparing a 40µm blown PE film with a 20µm BOPE film offers both potential technical and economic advantages:

- Down gauging by 50% and cost saving potential over 30%.
- BOPE shows higher puncture resistance and stiffness vs equal thickness blown PE.
- BOPE offers higher stress crack resistance.
- BOPE bag can be opened/peeled easily and via a controlled linear tear direction and low tear propagation strength providing enhanced customer convenience.



DESIGN FOR RECYCLING



REDUCE

Significant reduction potential of packaging material with BOPE

REUSE

Enabling reuse into food packaging via chemical recycling route

RECYCLE

Recyclable via mechanical and chemical recycling processes

SABIC BOPE is also available as TRUCIRCLE™ certified circular and renewable polymer.

- Certified circular BOPE polymer from feedstock recycling of plastic waste streams
- Certified renewable BOPE polymer from second generation bio-based feedstock

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