











Advancing sustainability

Customer benefits Full packaging solutions

Designed for recyclability

High barrier flexible packaging Good oxygen & water barrier

Mono-material structures
Cost-reduction



Goal

Lead the way in packaging designed for recyclability



Reduce

State-of-the-art packaging solutions



Reuse

Utilizing a new generation of polymers



Recycle

High barrier packaging designed for recyclability

Packaging consumption Sustainability challenges

Brand owners

- Sustainability pledges
- Move towards circular economy
- 3R priorities (Reduce, Reuse, Recycle)

Recyclable packaging

- High barrier
- Replace multi-material structures
- Innovation

Advancing sustainability

Collaboration: Delivering sustainable solutions



BOBST & industry leading partners



Newest generation of polymers (MDO PE, BOPP, BOPE & CPP)



Different high barrier mono-material structures



Considerable investment



Intense research



Latest technology & expertise



State-of-the-art machinery

High barrier, printing & lamination competence centres



- Leverage BOBST unique technologies
- Carry out barrier & adhesion tests in our laboratories
- EXPERT K5 Vacuum metallizer
 Vacuum metallizing: AlOx deposition and metallization with AluBond®
- NOVA C0 750 Coater
 Wet coating: Protective water-based top coat applied to AlOx
- EXPERT CI Flexo press
 CI flexo: Coated reels flexo printed (reverse water based ink and EB ink surface printing)
- VISION CL 850 Laminator
 Monomer-free & new generation of high barrier adhesives used

BOPP-UHB film



- For nearly 60 years Brückner, Germany has offered the latest technology for film stretching lines; they provide an individual service to film manufacturers:
 - Packaging film lines
 - Technical & specialty film lines
 - Plant engineering
 - Unique R&D facilities
 - Best technologies available for existing lines by Brückner Service
 - Sustainable film production for a circular economy
- BOPP ultra-high barrier (UHB) film provides outstanding properties for polypropylene film structures for high barrier, sustainable food packaging.
- 5-layer coextruded film + metallization
- Barrier & sealing performance by co-extrusion with a seal strength > 20 N/15 mm=> 1 ply film structures
- Very low oxygen (<0.2 cm³/m²dbar) & water vapor (<0.5 g/m²d) transmission
- With AlOx / SiOx transparent barrier & fully recyclable packaging film



High performance resins



- Recycle ready, barrier MDO pouch based on high-performance Dow resins
- 5 layer PE-rich lamination film
- Outstanding stiffness & great optics
- Broad sealing window
- Innovative design
- Excellent adhesion to vacuum-deposited layers
- Excellent alternative to BOPET or BOPP
- Suitable for medium to high barrier applications

Blown film extrusion & film orientation



- Alpine stands for more than 20 years experience in machine direction orientation (MDO)
- MDO is a booster for:
 - Mechanical properties (stiffness, tear resistance, impact strength, deadfold for twist film)
 - Optical properties (gloss & transparency)
 - Barrier properties (water vapour barrier, oxygen & gas barrier, breathability for hygienic film)
- MDO lines from Alpine are a crucial component in manufacturing high-performance full PE compounds
- The Alpine MDO with patented TRIO system offers:
 - High toughness for pack integrity
 - Flexibility for reverse printing in flexo or rotogravure lines
 - Significant material savings
 - Very good web planarity for efficient conversion

Pouch making machines

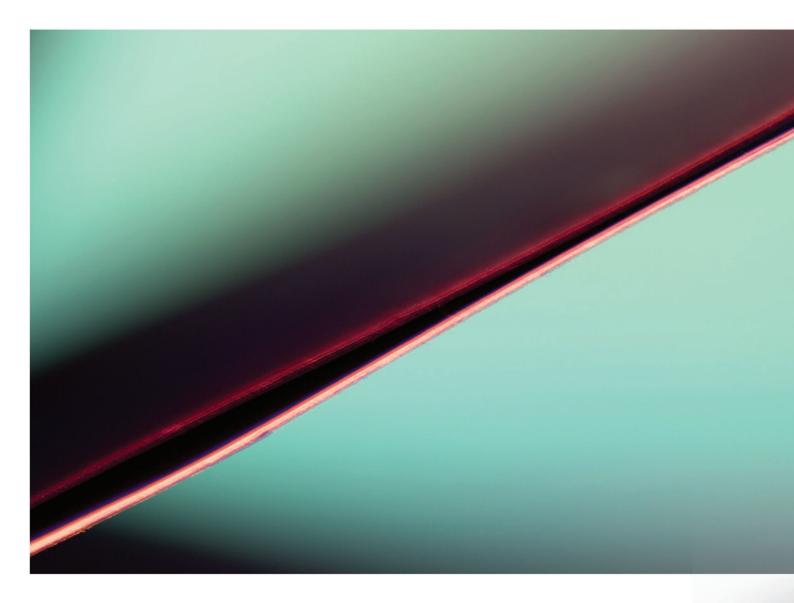


- One of the three family companies of Elba Group
- Developing & engineering a wide range of high-speed bag making machines since 1956
- The SA-V model is able to run different kinds of materials & produce different types of pouches (2 side seal, 3 side seal, Doypack®/Stand-up, quad seal bag & more)
- Great modularity
- Easy to use
- Reliable
- State-of-the-art components
- Energy saving with motor's kinetic energy recovery system
- Independent servo driven sealing stations

Proving high barrier recyclable film works today!



- EcoLam by Constantia Flexibles is a high barrier mono-PE
- Fully reycylable
- Excellent barrier properties against water vapour & oxygen
- High machinability
- 32% carbon footprint reduction
- Applicable for food and hygiene applications





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