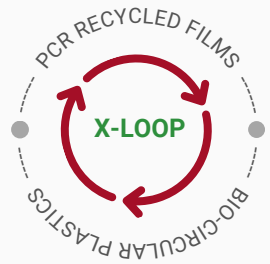




X-CYCLE

RECYCLABLE PACKAGING



SUSTAINABLE FLEXIBLE PACKAGING



**WORLDSTAR
WINNERS**

At A. Hatzopoulos S.A., we focus on improving packaging design and on innovating to make our products more environmental friendly and easier to recycle.

In line with our packaging sustainability vision, we have developed a series of **solutions that are ready for recycling: X-CYCLE™**. Complementing the sustainability benefits already offered by flexible packs, X-CYCLE™ films add recyclability to our already high-performance solutions, to meet the diversified needs and packaging goals of our customers internationally.

DESIGN FOR RECYCLING



Flexible packaging is the best packaging choice when it comes to product protection, food waste reduction, consumer convenience and sustainability. However, today, the multi-material packaging film structures that provide a broad range of protective and functional properties are not recyclable through the recycling infrastructure. The X-CYCLE™ solutions are the certified as recyclable films developed by A. Hatzopoulos S.A. to fill this exact gap.

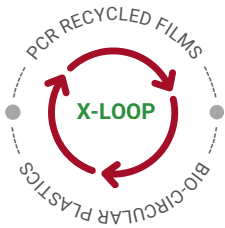
Consisting of three main categories: **X-CYCLE™ PP**, **X-CYCLE™ PE** and **X-CYCLE™ POLY**, these fully recyclable and monomaterial solutions are ready for recycling through the available corresponding recycling streams.

X-CYCLE™ | PP

Barrier laminates, designed for recycling through the PP recycling stream

X-CYCLE™ | PE

Barrier laminates, designed for recycling through the PE recycling stream



CLOSING THE LOOP

The new **X-LOOP™** packaging range incorporates post-consumer recycled plastics (**PCR**) and **bio-circular** plastic films, it is ISCC-certified and food-contact safe, in compliance with all Regulations on plastic materials that come in contact with food.



PCR FILMS | BIO-CIRCULAR



Circular by Design
Supporting the Circular Economy towards zero packaging waste



Food Approved
PCR and Bio-circular films suitable for food contact



Lower Carbon Footprint
Carbon Footprint Reduction compared to virgin plastics



Full Performance
Delivering same performance, barrier levels & properties to virgin materials



HIGH-BARRIER

- High-barrier properties against humidity / oxygen
- Optional integration of barrier properties against light / mineral oils
- Solutions suitable for packaging of an array of products

SHELF-APPEAL

- Suitable for high-quality printing
- Compatibility with lacquers
- Optional transparency to enable product visibility
- High resistance to puncture
- Adjustable pack stiffness
- Optional integration of certification logos



HIGH-PERFORMANCE

- High-performance films for various high-speed packaging lines
- Compatibility with add-on components, i.e. zippers, spouts, valves
- Hermetic seals, even at lower temperatures at certain cases
- Contribution to less energy consumption

At A. Hatzopoulos S.A. we are dedicated in achieving the sustainability goals set by our company, as well as our partners globally. With the common vision for a better future planet, we innovate for the development of the next generation of flexible packaging.

The innovative X-CYCLE™ and X-LOOP™ lines are our complete, multiple **Worldstar Packaging Award** winning circular packaging solutions that help close the loop on flexible packaging.



**WORLDSTAR
WINNERS**

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