



Exxtend™ technology for advanced recycling

Valgroup continues its plastic circularity journey with ExxonMobil's certified-circular plastics leveraging Exxtend™ technology for advanced recycling



ISCC PLUS
"Sustainability
Declaration"



Recyclable*
packaging



Brand
promotion/
appeal



Packaging
performance

Data and results presented herein apply specifically to the noted application under this fact sheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

Challenge

For over 45 years in the market, Valgroup has become a reference in plastic packaging production, transformation and recycling. It operates in Brazil, Colombia, Spain, the United States, Italy, Mexico and Uruguay and has more than 7,000 employees in 41 production plants and 7 logistics plants. It is a consolidated company that aims to improve society's quality of life with innovative and sustainable solutions.

"Sustainability at Valgroup is guided by solid pillars and clear commitments that aim to contribute to a circular and low-carbon economy. Our main pillars include reducing carbon emissions, efficiently managing resources and promoting the circular economy by encouraging the 4Rs: reduce, recycle, reintegrate and redesign," said Eduardo Berkovitz, Director of Institutional Relations and Compliance at Valgroup.

The company is at the forefront of expanding the options in its portfolio that help address the plastic waste challenge while delivering high performance packaging.

As part of this plastic circularity journey, innovative solutions were needed to help achieve the goal of supporting plastic waste as an alternative to fossil-based feedstocks, while keeping the same level of product performance.

Solution

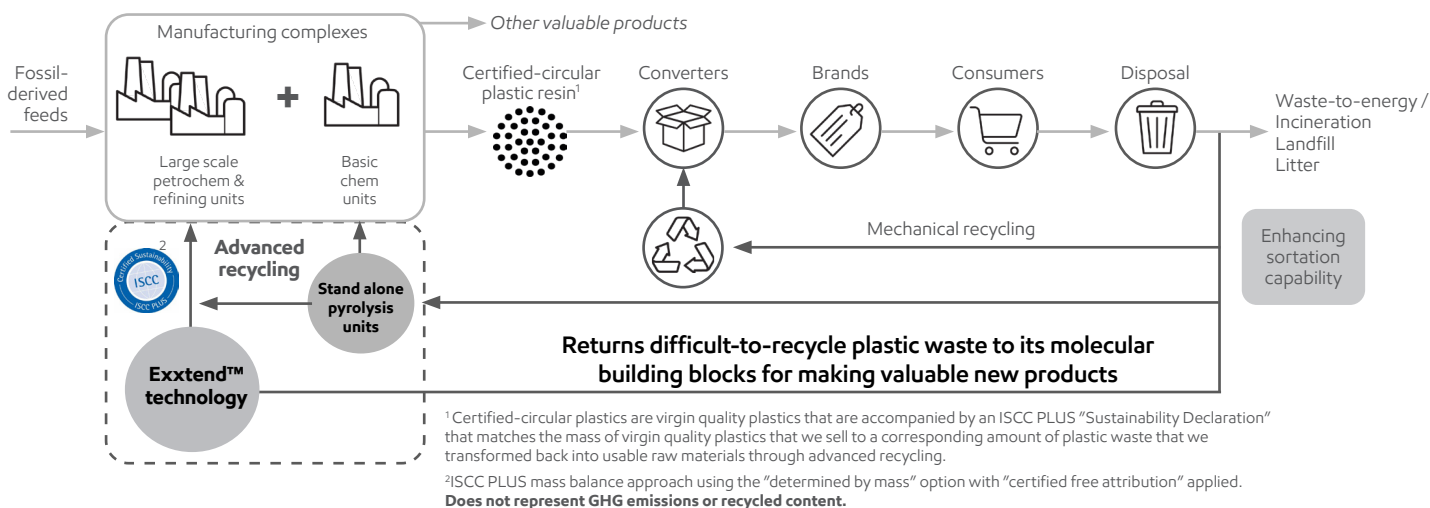
Valgroup collaborated with ExxonMobil to use certified-circular plastics leveraging Exxtend™ technology for advanced recycling and mass balance attribution. Certified-circular plastics are virgin quality plastics that are accompanied by an International Sustainability and Carbon Certification (ISCC) PLUS "Sustainability Declaration" that matches the mass of virgin quality plastics that ExxonMobil sells to a corresponding amount of plastic waste that ExxonMobil transformed back into usable raw materials through advanced recycling.** These certified-circular plastics are identical to ExxonMobil's existing products, which means they have the same quality and performance and can be safely used in food and medical applications that have strict quality regulations.

At the forefront of evolving demand, Exxtend technology is a foundation for certified-circular plastics that can help our customers advance their plastic circularity goals. We are unlocking the value of a wider range of plastic material that can be difficult to recycle through mechanical processes. By breaking down plastics at a molecular level, Exxtend technology for advanced recycling creates building blocks that can then be used to create a wide range of valuable new products.

Both ExxonMobil and Valgroup have obtained certification through ISCC PLUS process for several of their facilities. ISCC PLUS is an independent third-party certification system which is well recognized by stakeholders and was developed through an open multi-stakeholder process, and is governed by an association with more than 250 members, including research institutes and NGOs.

*Recyclable in the few communities with programs and facilities in place that collect and recycle collation shrink films.

** Does not represent GHG emissions or recycled content.



With the ability to reprocess difficult-to-recycle plastic waste, advanced recycling technology gives another life to materials that might otherwise be discarded in landfills or incinerated. Advanced recycling offers a potential solution for a new market in Brazil, as Anvisa*** recently approved the use of advanced recycling for food contact applications.

Results

By purchasing certified-circular plastics from ExxonMobil, Valgroup is the first company to leverage Exxtend™ technology in South America, unlocking new opportunities towards a more circular economy for plastics. Through them, the beverage producer was able to launch a printed collation shrink package incorporating 100% certified-circular plastics, meeting the value-chain expectations for package performance, safety and product appearance.

Eduardo Berkovitz shared, “New plastic recycling technologies such as advanced recycling, for example, will revolutionize the circularity of packaging, diverting plastic waste from landfills and incineration into useful raw materials.”

Advanced recycling challenges the previous limits of plastics circularity by helping to increase the range of plastic products that can be converted into demanding applications. Combining innovation and commitment to a more circular plastics economy, Valgroup is at the forefront of expanding the options for solutions with sustainability benefits in its portfolio.

***Source: <https://braziliannr.com/2024/03/01/recycling-food-packaging-anvisa-answers-questions/>

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