



## Repsol and Signode launch the first post-consumer recycling solution for polypropylene strapping in the market

- The Repsol Reciclex® RXP33AAA polypropylene (PP) compound is formulated with 30% mechanically recycled post-consumer domestic plastic, improving the carbon footprint by 9%.
- This new ready-to-use compound allows for straps with high toughness and consistent properties.
- This development has allowed its client Signode to launch an innovative range of strapping with recycled plastic content, equivalent properties compared to those manufactured with virgin raw material. These products are designed to help multiple industrial sectors fulfill their sustainability goals, particularly in logistics and industrial packaging, where the products are used to secure loads during transportation.

Repsol and its client Signode have jointly developed the first ready-to-use polypropylene compound specific for high tenacity strapping, incorporating 30% mechanically recycled post-consumer domestic plastic, Repsol Reciclex® RXP33AAA, and certified under the Recyclclass scheme that ensures the traceability of recycled plastics. In this way, the carbon footprint is reduced by 9% with this solution.

Incorporating recycled material into this polypropylene formulation to manufacture strapping has posed a challenge for both companies due to the high consistency and toughness required for the final application. Based on the requirements provided by Signode, the Repsol circular economy dedicated team carefully selected specific recycled material flows – in collaboration with Acteco – and tested numerous formulations in the Repsol Technology Lab. For its part, Signode conducted all performance tests to confirm that the material's final formulation had the required mechanical properties for its products and would operate well in its tools and strapping machines.

Thanks to the new Repsol Reciclex® RXP33AAA polypropylene compound, Signode has launched a new range of innovative recycled products with properties similar to those made with virgin raw materials.

Thus, both companies help meet the sustainability commitments of many industrial sectors, which need this type of products - such as strapping - in their logistics or industrial packaging to unite the load and guarantee its safety and integrity during transport. This way, Repsol continues offering new solutions that contribute to the competitiveness of its customers, by boosting its portfolio of sustainable polyolefins for high-performance parts. Simultaneously supporting its goal to recycle the equivalent of 20% of its polyolefin production by 2030 and the company's main goal to become a net zero emissions company by 2050.



## About Repsol

Repsol is a global multi-energy company that is leading the energy transition with its ambition of achieving zero net emissions by 2050. Present throughout the energy value chain, the company employs 24,000 people worldwide and distributes its products in nearly 90 countries. Its customer-focused product and services portfolio meets all consumer needs to around 24 million customers, whether at home or on the move.

To achieve its goal of zero net emissions by 2050, Repsol is deploying an integrated model of decarbonization technologies based on improving efficiency, increasing low-emissions power generation capacity, producing low-carbon fuels, developing new customer solutions, the circular economy, and driving innovative projects to reduce the industry's carbon footprint.

In Chemicals, Repsol is committed to greater efficiency in industrial processes aimed at the circular economy, with the goal of recycling the equivalent of 20% of its polyolefin production by 2030. [Repsol has a circular economy strategy since 2016](#) that it has applied throughout its value chain, from obtaining raw materials to the marketing of products and services.

Repsol's products are used to manufacture everyday objects that improve people's quality of life, well-being, and safety. Its wide variety of chemical products range from base petrochemicals to derivatives and include a wide range of polyolefins, all of which are 100% recyclable.

## About Signode

With more than 80+ manufacturing facilities and over 7,000 employees worldwide, Signode is a leading manufacturer of a broad spectrum of packaging consumables, tools, software, and equipment that optimize end-of line packaging operations and protect products in transit. Signode brings this extensive product portfolio together under hundreds of trusted brands to offer complete transit packaging solutions to its customers. For more information, visit: [www.signode.com](http://www.signode.com)



