



Repsol expands its range of ultra-clean polyethylene, promoting sustainable eco-design

Repsol launched its new range of ultra-clean polyethylene designed to replace multi-material structures, which cannot be fully recovered due to the difficulty of separating the different materials. The new range contains several grades of high-density polyethylene, low-density metallocene, and an EBA copolymer to offer great versatility to customers in designing different types of single-material, 100% recyclable structures. In this way, Repsol promotes flexible packaging eco-design, facilitating the recovery of these materials at the end of the packaging's life cycle through mechanical recycling, the most sustainable way regarding carbon footprint and efficiency according to the EU taxonomy.

The new range of ultra-clean polyethylene improves processability over other alternatives currently available on the market by allowing higher stretch ratios and improving the performance of the final products. It achieves a stretch ratio up to 40% higher than non-ultra-clean grades, allowing these materials to be used in applications with maximum orientation and differentiated mechanical properties.

Repsol thus offers its clients a solution to achieve their sustainability objectives, anticipating the new European regulations that will come into force in 2030, which dictate that all packaging marketed in the EU must be recyclable.

The use of MDO technology to produce single-material packaging is recent; Therefore, there is minimal installed capacity and is still under development. Consequently, it is a novel solution with high potential to solve the sustainability challenges of flexible packaging.

"We are proud to launch one of the most comprehensive ranges to support customers in this initial phase and accompany them in the innovation process," said Antonio Portela, Polyolefins director at Repsol. "Our new range is also available in its circular, bio, and bio-circular alternatives to further drive our customers' sustainability commitments in circularity and decarbonization."

The company has developed five new grades to meet the needs of its customers, which are now commercially available:

- HDPE UltraClean 110
- HDPE UltraClean 120
- mLLDPE UltraClean 210
- mLLDPE UltraClean 220
- EBA UltraClean 310

According to Pablo Giner, Polyethylene director at Repsol, "With this launch, we offer our clients a global eco-design solution for flexible packaging based on our broad portfolio of polyolefins: HDPE, mLLDPE, and EBA."



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. Repsol is also a major player in the power and gas market in Spain with 2 million customers and a total low emissions generation capacity of 3.800 MW.

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.

Repsol has one of Europe's most efficient refining systems and has three large petrochemical facilities where differentiated products with high added value are developed. The company is transforming its seven industrial complexes in Spain, Portugal, and Peru into multi-energy hubs through state-of-the-art projects that will reduce their 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.

Supplementary graphic material and photographs to illustrate the information in the press release:



