



## Repsol combines safety and circularity in its Repsol Reciclex<sup>®</sup> valve guard for its lightweight LPG cylinder, incorporating 10% recycled materials

- The valve guard is designed to meet all high standards of quality and mechanical properties.
- It is a safety piece that protects the bottle's valve. Incorporating 10% recycled material reduces the piece's carbon footprint by 6% compared to virgin material.
- This initiative is part of Repsol's commitment to developing solutions that contribute to the circular economy by using recycled materials in its products.

Repsol LPG has launched a new valve protector for its lightweight LPG cylinder in collaboration with the company's Chemical business. The valve guard is a safety piece that protects the bottle valve and requires high standards of quality and mechanical properties. Thus, the project required close collaboration between Repsol's LPG and Chemical businesses, taking advantage of the former's experience in the valve's technical specifications and the latter's knowledge and understanding of advanced materials and offering adapted solutions to help its clients advance in their sustainability commitments.

The new valve guard contributes to Repsol's sustainability and decarbonization commitments by incorporating 10% recycled material, reducing the carbon footprint generated in manufacturing these parts by 6%. This is an important milestone since incorporating this type of material while maintaining high standards of quality and mechanical properties represents a high-level technical challenge that Repsol has undertaken to promote the use of recycled materials in its products whenever possible.

Producing the valve protector in Repsol's corporate blue represented a tremendous technical challenge, so incorporating recycled material would not alter the color. To do this, Repsol has selected specific flows through its alliance with the recycler Acteco to obtain a ready-to-use colored compound.

Through this project, starting in mid-2024, all new bottles included in Repsol's lightweight LPG cylinder pool will incorporate this new valve guard.

"This project is an excellent example of how, through collaboration, it is possible to find circular solutions for technical parts with strict safety requirements," says Pablo Giner, Polyolefin Sales Director at Repsol Chemical business.



Siridia Berenguer Murcia, LPG director at Repsol, added, "At Repsol, we are determined to invest in and research innovative ways to reduce our environmental footprint without compromising the safety and quality of our products."

This initiative reaffirms Repsol's commitment to safety by prioritizing risk management across its entire value chain.

