

At Dow, we are committed to **closing the loop on plastics circularity.**

To do this, the inclusion of post-consumer recyclates (PCR) during the production process needs to be as easy and efficient as possible and not compromise on the application's performance.

REVOLOOP[™], Dow's newest family of resins containing up to 70% recycled material, enable exactly that. Our most recent work extended the application of the resins to stretch films, where thanks to Dow XZ 98615, a high-performance machine wrap stretch film containing >30% of PCR could be created.



1/3 less carbon emissions when compared with virgin-based materials

How effective is our PCR-rich resin based stretch film?



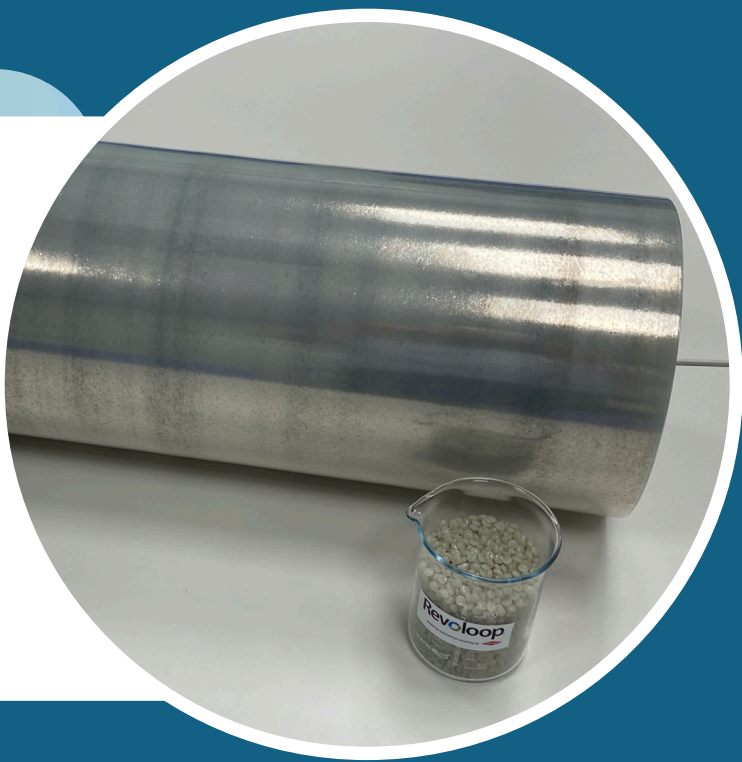
The films show superior extrusion processability when compared with other PCR-based films and carried out on a 4m wide line.



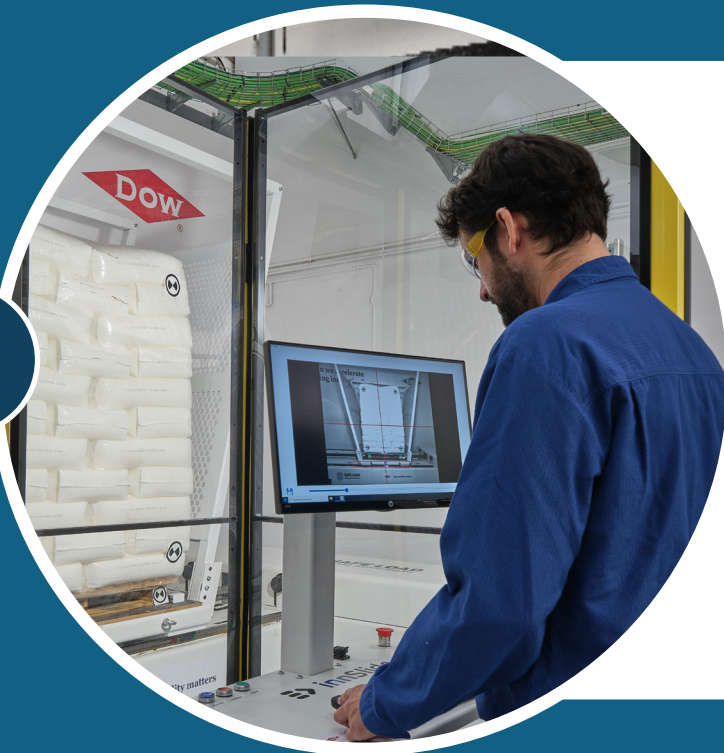
The results confirm outstanding puncture and tear resistance, as well as an ultimate elongation above 400% for the 23 microns films and above 300% for the 17 microns films.

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Our REVOLOOP[™] solutions for 17 and 23 micron stretch wrap films were tested in combination with other Dow high performance resins by teams at Pack Studios Tarragona and SML.



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Load stability tests validated the films' performance in close-to-real transportation conditions and in accordance with the international quality standards, such as EUMOS 40509 and the US FMCSA Cargo Securement Requirements.



What are the benefits of **REVOLOOP[™] resins?**

Thanks to their quality consistency, REVOLOOP[™] resins make it easier to integrate post-consumer materials in new high performance packaging and contribute to a significant reduction of fossil-based feedstocks required during manufacturing.

REVOLOOP[™] resins have a high content of PCR, enabling a 30% reduction in carbon footprint when compared to virgin resins, helping manufacturers and brand owners meet their sustainability goals.

REVOLOOP[™] resins' superior extrusion processability and consistency enables an optimize manufacturing process and allows for efficient and cost-effective film production.

REVOLOOP[™] technology is helping to close the loop on plastics waste. The performance testing of these films marks another important step forward in Dow's commitment to reducing plastic waste and helping to close the loop on plastics circularity.

Resin contains **70%** Post-consumer Recyclates

