Enabling collation shrink films with up to 100% PCR incorporation

Unlocking higher PCR inclusion thanks to REVOLOOP™100-136.00T[1] Recycled Plastics Resins

Why does load stability matter?

In today's globalized economy, more and more goods are transported over longer distances. Load security is a major challenge for the supply chain and the freight industry, as cargo failures represent a safety, economic and waste issue. In Europe new load security requirements have recently been introduced to increase safety while minimizing product damage.[2]

Retailers, brand owners, logistics and shipping companies are today looking for packaging solutions that deliver high load stability, package integrity and durability.

Dow's approach to load stability

At Dow, we believe that collaboration across the value chain is critical to ensure the successful evaluation and improvement of packaging technologies and the development of load stability solutions that meet industry requirements and regulatory standards.

Dow's Pack Studios is a unique collaborative approach to accelerating sustainable packaging innovations. Gathering global, technical and market expertise from across the packaging value chain, we create the optimal environment to rapidly conceptualize, develop and test ideas with our fully equipped on-site facilities.

We've invested specifically in a Load Stability Innovation Center in Tarragona, Spain, which supports the development of new improved pallet unitization film solutions, designed to improve safety while reducing waste, cost and carbon impact.

Dow is also a member of European associations that are focused on improving technology and standards in cargo transport safety.

A REVOLOOP™ Recycled Plastics Resins story: Discover the possibilities of PCR incorporation for collation shrink films

Collation shrink films are a versatile type of packaging, applied loosely around items such as beverage bottles, food cans, health and beauty products, or household items, and shrunk tightly by applying heat. They can be used in different forms such as transparent or colored, with or without printing, and with different film thicknesses.

Dow resin formulations for multilayer premium collation shrink film applications are designed to help brand owners create high shelf appeal and offer a wide array of opportunities for film converters to design films for specific applications with optimized performance and thickness based on Dow's toolbox approach.

A REVOLOOP™ Recycled Plastics Resins success story: Exploring the results

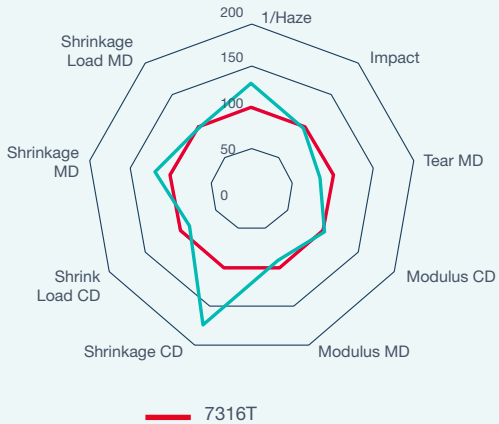
Reducing the carbon footprint thanks to REVOLOOP™100-136.00T[1] Recycled Plastics Resins.

Benefits thanks to the integration of REVOLOOP™ Recycled Plastics Resins

- Easier and maximized integration of post-consumer materials in industrial, high-performance packaging
- Improved performance and production costs
- Carbon footprint reduction
- Significant reduction in fossil-based feedstocks
- Helps to close the loop on plastics waste
- Helps manufacturers and brand owners meet their sustainability goals
- Packaging integrity and durability reduces waste

Technical data

3 layers – 40 microns (15/70/15) – blown film – BUR 3
Overall: 50% total PCR incorporation into film formulation



Skin layers
20% LDPE 320E
+ 80% XZ98608.01

Core layer
100-136.00T (XZ 89188.00) / LDPE
or 7316T

The REVOLOOP™ Recycled Plastics Resins from Dow's circularity portfolio has been developed for use in collation shrink films as a secondary packaging for transportation of cans or bottles. The resin enables the production of a consistent and high-quality product that improves package integrity and durability while incorporating a high percentage of post-consumer logistic packaging plastic waste.

REVOLOOP™ Recycled Plastics Resins: A certified brand

REVOLOOP™100-136.00T[1] Recycled Plastics Resins have been fully validated by RecyClass certifications.

About REVOLOOP™ Recycled Plastics Resins

Dow continues to work towards a circular system, which guarantees that secondary, or transportation packaging films, are recycled back into the same type of application.

REVOLOOP™ Recycled Plastics Resins exemplify Dow's efforts around the world to accelerate a shift to a circular economy for plastics. By allowing for technologies, partnerships and developments that support high-quality PCR integration into our everyday plastics packaging, REVOLOOP™ Recycled Plastics Resins help to close the loop on plastics waste.

Furthermore, REVOLOOP™ Recycled Plastics Resins enable a simpler PCR process integration for film producers and helps bring brand owners closer to their sustainability goals.

Do you have any questions?

If you want to discover more about our REVOLOOP™ Recycled Plastics Resins offering, please contact your respective Dow representative or visit https://www.dow.com/en-us/brand/revoloop-recycled-plastics-resins.html for further information.

References

1. Please note that the product is currently named XZ89188.00, but this is subject to change soon to REVOLOOP™ 100-136.00T. The Recyclass certification has been given to XZ89188.00, but we expect to have it for the new product name soon.
2. European Standard EN12195-1 on cargo & load securing.

About Dow

Dow (NYSE: DOW) combines global breadth; asset integration and scale; focused innovation and materials science expertise; leading business positions; and environmental, social and governance leadership to achieve profitable growth and help deliver a sustainable future. The Company's ambition is to become the most innovative, customer centric, inclusive and sustainable materials science company in the world. Dow's portfolio of plastics, industrial intermediates, coatings and silicones businesses delivers a broad range of differentiated, science-based products and solutions for its customers in high-growth market segments, such as packaging, infrastructure, mobility and consumer applications. Dow operates manufacturing sites in 31 countries and employs approximately 37,800 people. Dow delivered sales of approximately $57 billion in 2022. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit **www.dow.com** or follow **@DowNewsroom** on Twitter.

Dow Corporate Headquarters
2211 H.H. Dow Way
Midland, MI 48674

US	
Toll Free	800 441 4DOW
	989 832 1542
International	
Europe / Middle East	+ 800 36 94 63 67
Italy	+ 800 783 825
Asia / Pacific	+ 800 77 76 77 76
	+ 60 37 958 3392
South Africa	+ 800 99 5078

dow.com

Form No. 768-961-01-0724 PN