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Siegwerk and Enplater develop fully recyclable mono-PP pouch with integrated barrier and sealing performance

Through close collaboration, the two partners successfully developed a fully recyclable mono-PP pouch that combines high technical performance with sustainability. This co-development project proves once again how inks and coatings, paired with specialized packaging expertise, can drive circular innovations.



Siegburg, Germany /Torroella de Montgrí, Spain, April 29, 2026 Siegwerk, one of the leading global providers of printing inks and coatings for packaging applications and labels, and Enplater Group, a specialist in the printing and production of rigid and flexible packaging, announced today the joint development of an innovative mono-material packaging solution made of polypropylene (PP) that offers high technical performance full recyclability**.**

The joint development combines Siegwerk's expertise in high-performance, regulatory-compliant ink and coating systems with Enplater's extensive know-how as an experienced specialist for rigid and flexible packaging. Through close collaboration between the technical and R&D teams of both companies, the partners conducted comprehensive trials under realistic production conditions, generating application-oriented insights that supported the optimization of the new high-barrier mono-PP pouch structure for food packaging. "As the packaging industry continues its transition toward circular solutions, collaboration across the value chain is essential to keep driving innovation forward," said Javier Garcia, Head of Sales & Technology Iberia. "By combining our advanced ink and coating technologies with Enplater's specialized converting expertise, we have been able to develop a mono-material PP pouch that performs on-par with existing multi-material barrier solutions, while driving the material efficiency necessary to meet the strict Design for Recycling mandates of the upcoming PPWR."

As part of the project, several key technologies from Siegwerk's were used. CIRKIT OXYBAR WHITE, a combined oxygen-barrier and white ink technology applied in-line in a single step. This enables the transition away from PVdC, metallized mixed materials (such as met-PET and met-OPP) and EVOH-based structures by simply replacing the standard backing white, introducing a new level of inventory flexibility with zero additional capital expenditure. In addition, Siegwerk's latest polyurethane (PU)-based ink systems were used, which offer high print quality and excellent adhesion and are suitable for demanding flexible packaging applications.

"Collaborating with Siegwerk has been effective, enabling us to advance our research in mono-materials through the combined know-how and technologies of both companies," added Jordi Feixas R&D Manager at Enplater. "Our combined expertise has resulted in a solution that not only performs reliably in production but also aligns with increasing market demand for recyclable packaging structures." The joint project reflects both companies' commitment to supporting

the transition toward more sustainable packaging solutions by delivering future-oriented innovations that address real-world manufacturing and regulatory challenges without compromising on food protection.

Enplater Group will exhibit at Interpack 2026, taking place in Duesseldorf, Germany, from 7 to 13 May. Visitors are invited to explore selected samples from the jointly developed mono-PP pouch at Enplater's booth D52 in Hall 10 and learn more about the collaboration and the printed packaging solutions on display.

About Enplater

Enplater Group is a family-owned manufacturer specializing in flexible and rigid packaging solutions, with a heritage dating back to 1962. The company's strategy focuses on driving the development of innovative packaging that meets environmental and market demands. All products are backed by internationally recognized certifications, including BRC, ISO 9001, ISO 14001, ISCC+, EFSA, Retray, and UNE EN 15343:2008, making Enplater a reliable partner. www.enplater.com

Media Contact Enplater:
Albert Valldeperes
Marketing Manager
avalldeperes(at)enplater.com

Media contact



Nathalie Müller-Samson
Manager Corporate Communications

Tel: +491622002727
Email: nathalie.mueller-samson(at)siegwerk.com



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