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Mono-PE prototype pouch with 50% chemical recycled content presented at K Fair

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Dow, Macchi, and ITP have joined forces to develop a **mono-polyethylene (mono-PE)** prototype pouch containing over 50% **recycled plastic** content from **chemical recycling** based on a mass balance credit approach.

This collaboration demonstrates the feasibility to incorporate higher volumes of chemical recycled material without compromise on performance or safety, enabling increased uptake of recycled content into food packaging.

The pouch also addresses the upcoming **EU Packaging and Packaging Waste Regulation (PPWR)** recycled content quotas, which mandate specific recycled content targets for all plastic packaging by 2030 including 10% for food contact-sensitive applications.



The snack prototype pouch was designed for recyclability and suitable for food packaging due to its high barrier properties against gas and moisture.

Dow contributed advanced PE resins combining excellent processability with top-end functional performance. Macchi, a leading manufacturer of blown film extrusion lines, provided high-performance multilayer extrusion technology.

ITP, a company specializes in PE film extrusion with advanced single-bubble and triple-bubble technology, managed film substrate selection, digital printing, lamination, and pouch making.

The new pouches will be on display at the Dow and Macchi booths at the upcoming **K 2025** (https://www.adsalecprj.com/en/column_project/category/146.html).

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