

NATIONAL RESOURCES

The Packaging Edition!

Global
Sourcing for
Local
Manufacturing

MAY 2026

re/cycle

Barrier papers

New at National Resources

Barrier Papers: The Fibre-Based Shift Accelerating Packaging Sustainability

Barrier papers are rapidly becoming a cornerstone of next-generation sustainable packaging. They combine renewable fibre substrates with engineered barrier coatings to protect products from oxygen, moisture, grease, light and contamination - functions traditionally delivered by plastics or aluminium. This makes them a powerful lever for brands seeking to reduce carbon footprint, improve recyclability and meet tightening regulatory expectations and growing consumer demand.

We are proud to be partnering with Mondi as they firmly into the spotlight as demand for sustainable packaging surges, unveiling a strengthened portfolio of recyclable barrier papers designed to replace plastics across a wide range of applications.

Why Barrier Papers Matter?

Barrier papers offer high-performance protection while enabling a move away from multi-material laminates that are difficult to recycle. Many solutions now run on existing form-fill-seal or thermoforming lines, making the transition operationally feasible for manufacturers. Fibre-based formats also support strong print quality, helping brands maintain shelf presence while improving sustainability credentials.

Mondi's latest barrier paper technologies demonstrate how fibre-based packaging can now deliver the performance once reserved for plastics and aluminium laminates.



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Barrier Papers by Mondi:

A PORTFOLIO BUILT FOR PERFORMANCE AND CIRCULARITY

Mondi's barrier paper range is structured around three performance tiers, each designed to meet specific technical and sustainability requirements.

FunctionalBarrier Paper 95/5



Mondi's FunctionalBarrier Paper 95/5 sits at the heart of its recyclable portfolio, offering a 95/5 paper-to-polymer ratio that meets the strictest recyclability criteria across Europe and North America. 95/5 paper:

- Runs on existing FFS lines
- Excellent sealability and mechanical strength
- Suitable for dry, fresh and frozen foods, ecommerce, including technical goods
- PVDC & PFAS free.

FunctionalBarrier Paper Reduce



The Reduce line is designed for versatility, running efficiently on existing FFS equipment and supporting a wide range of categories including dry food, fresh food, frozen goods, home and personal care and eCommerce. Lightweight structures with minimal polymer content including:

- Moisture and water vapour barrier
- Good printability
- Recyclable in paper or lightweight packaging streams.

HiProtex Paper



At the top end of Mondi's portfolio is HiProtex Paper, a high-barrier, heat-sealable fibre-based alternative to aluminium laminates and multilayer plastics. This range is designed for products requiring superior oxygen, moisture and light protection, making it suitable for categories where shelf life and product integrity are non-negotiable. It offers:

- Tailored oxygen and water vapour barriers
- Sunlight protection
- More than 80% paper content
- Ideal for confectionery, nutritional supplements, pet food and premium dry goods.

Mondi's commitment to recyclability goes beyond product design. The company operates its own CEPI-aligned recycling lab, ensuring every barrier paper structure meets rigorous standards for yield, sheet adhesion and homogeneity. Certifications from PTS, Interseroh, CEREC and OPRL further validate the materials' recyclability across key markets. With barrier papers now running efficiently on VFFS and HFFS lines, Mondi is making the transition from plastic to paper both possible and practical.

[Contact Us to Find Out More Mondi Barrier Papers](#)