

Products and solutions

Responsible products

The Mondi Group was recognised in WWF's Environmental Paper Awards in 2016. In the 'Transparency' category, Mondi was recognised for publishing the forest, climate and water footprint of 92% of our uncoated fine paper brands. In the 'Best Environmental Performance Paper Brands' category, 32 of our uncoated fine paper brands received this award and all brands achieved a score over 80%. Our packaging business was also recognised in the 'striving for continual improvement' category.

Green Range

Our Green Range comprises smart, resource-efficient packaging and paper products that meet high environmental and social standards. The range was originally developed by our UFP business and then extended to other businesses within the Group. The seven Green Range criteria are important to consider in providing clear benefits for our customers, partners and businesses:

→ Promoting sustainable forestry – our forestry management practices focus on optimising wood production while maintaining important ecosystem services. The wood we procure is certified according to the standards of FSC or PEFC™ in the countries where we operate, or meets our company minimum wood standard that complies with the standard for Controlled Wood (FSC-STD-40-005).

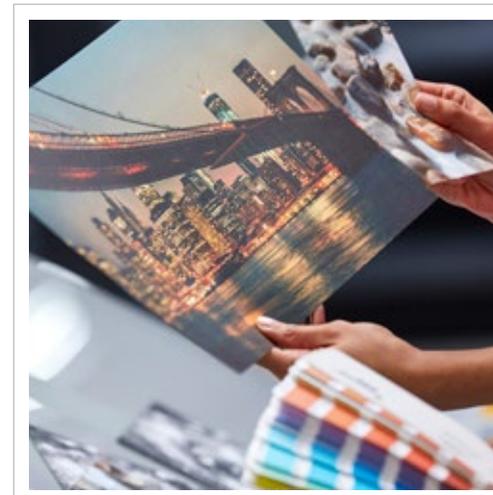
- Renewable materials – we create products made from verified, responsibly produced, renewable materials.
- Recycled materials – our products are made with recycled materials that do not compromise quality or safety.
- Material optimisation – our products optimise material usage with due regard to quality and safety.
- Enhanced packaging performance – our packaging must protect products during transport and extend shelf life.
- Next life – our products are optimised for reusability, recyclability, compostability and degradability.
- Reduced emissions – emissions to air, water, or land are minimised during production and through supply chain optimisation.

Our UFP business launched five new products in 2016 under the umbrella of Green Range, among them NAUTILUS® ProCycle. This new premium 100% recycled paper combines a high whiteness with Blue Angel environmental criteria. It offers excellent runnability as well as more vivid colours and faster drying, due to ColorLok® Technology for inkjet print. Along with NAUTILUS® ProCycle, our high-speed inkjet brands NEUJET® matte, NEUJET® matte premium, NEUJET® silk and NEUJET® silk premium have the Green Range logo, the EU Ecolabel and are FSC certified.

Mondi's Green Range FSC certified PERGRAPHICA® paper

Recognised certification of our raw materials and paper is of great importance to our customers. For example, the annual FSC Germany magazine was printed on PERGRAPHICA® Natural Smooth, which also carries the EU Ecolabel and is ISO 9706 (age-resistant paper) certified.

Also in 2016, to strengthen its bid to work with the Hungarian Government, Hungarian company Euro Irodaszergyártó approached us to provide a paper that would give them the edge. Our solution was to offer DNS® premium reels, our premium digital printing paper which offers professional printers a single product for any application on digital and offset printing presses. The source material we use is FSC certified, and the paper provides improved envelope quality. Together, these factors enabled the company to secure entry into the governmental sector in Hungary.



Water-soluble films reduce packaging and improve safety

Individual wrappers for household cleaning products like dishwasher tablets and laundry detergent generate waste, can be fiddly to use and increase health risks posed by users handling raw products. Premiered at FachPack in September 2016, Mondi's water-soluble film offers a smart, convenient and biodegradable solution for packing and dosing household products and industrial chemicals. The water-soluble film is easy to use and offers excellent sealing and deep drawing properties while being completely soluble, even in cold water. The environment also benefits as Mondi's water-soluble films help to reduce packaging waste and are biodegradable, non-toxic and non-inhibitory.



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Heavy duty corrugated car part shipping solutions reduce transport emissions

Mondi Ansbach (Germany) has developed a new packaging idea for automotive hoods together with one of its well-known automotive customers. The clever construction, produced by Mondi's corrugated heavy-duty plant, replaces heavy wooden crates with purpose-made cardboard packaging. In contrast to wooden crates which have to be shipped back empty after product delivery, corrugated cardboard is recycled after being shipped one way.

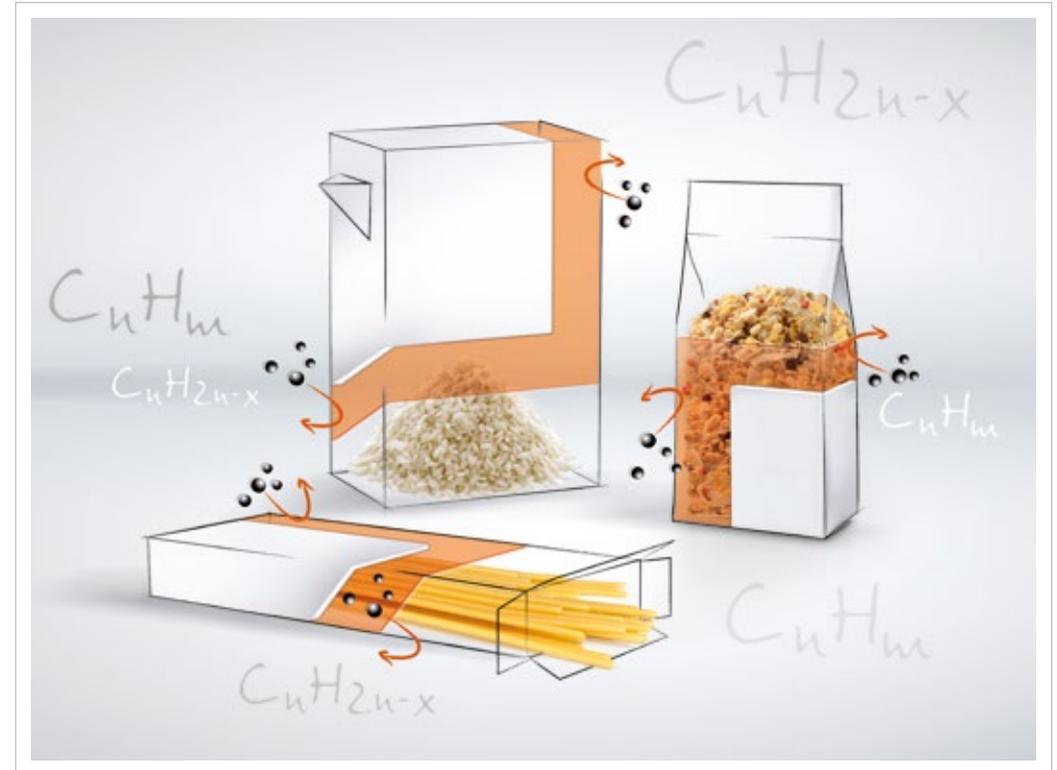
This makes the transport shorter and more efficient and lowers the product's carbon footprint. Corrugated cardboard is also easier to use, safer to handle and lighter to transport, making it an ideal solution for sea and air freight. Delivered prefabricated to the automotive manufacturer, the cardboard kit also simplifies procurement, warehousing and logistics – enabling the packer to effortlessly adjust the kit to allow for shipment of different product combinations. The customer has reported less product damage as paper-based packaging provides an additional cushioning effect during transport.



New paper-based packaging provides mineral oil barrier

Miprotex, our paper-based barrier material, has performed exceptionally well in external laboratory tests for preventing migration of mineral oil and has been certified for food contact. It complies with direct food contact regulations and offers good protection against aroma, grease, oxygen and water vapour migration. Miprotex is a cost-effective lighter-weight alternative compared with other products.

It can be used in fibre-based primary packaging for food with a long shelf life such as rice, pasta, salt, baking mixture and sugar sticks, and also in secondary and transport packaging. Because it can be exposed to higher temperatures, it is also ideal for pizza boxes, packaging for burgers and other convenience foods.



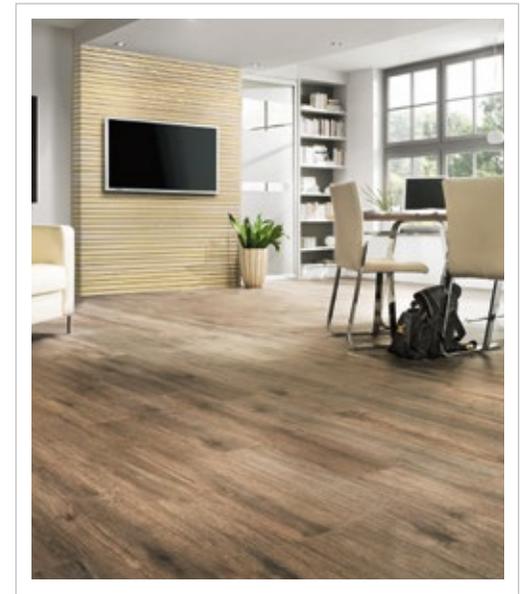
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Customer collaborations

SPLASHBAG protects powdered products from rain and humidity

In response to customer needs, we are jointly developing the next generation of industrial bags. One example is our SPLASHBAG, a water-resistant paper bag developed in collaboration with the cement producer, LafargeHolcim. SPLASHBAG is particularly suitable for moisture-sensitive filling goods. Wet-strengthened, machine-finished Mondi Advantage Protect Sack Kraft paper is formulated to maintain high tensile strength, even in a wet environment.

As a result, the SPLASHBAG absorbs less moisture than conventional paper bags, maintaining product quality while matching the filling speed of standard paper bags. After up to two hours of direct exposure to rain, SPLASHBAGS can still be moved, handled and emptied without difficulties. Bag breakage rates are significantly reduced, leading to genuine cost savings through reduced waste, lower vehicle and site clean-up costs, fewer trips from warehouse to site, and time savings for logistics and site managers.



Speciality kraft paper Advantage MF SpringPack Plus as an alternative to plastic spring core mattress packaging

Working with Nantongpack in China, Mondi identified an opportunity to grow in the spring core mattress market in Asia¹ which will increase the demand for packaging designed specifically for these products. In Asia, non-woven and plastic materials are currently used for spring mattress packaging. With Advantage MF SpringPack Plus, we offer a suitable alternative using our speciality kraft paper which provides the same strength with less material, providing both economic and environmental benefits.

¹ Global Mattress Market Size, Share, Development, Growth and Demand Forecast to 2022 – Industry Insights by Product (Innerspring, Memory Foam, Latex, Others), P&S Market Research: <https://www.psmarketresearch.com/market-analysis/mattress-market>

Introducing roomskin® – the next generation self-healing floor overlay

Developed by our team at Mondi Gronau, roomskin® is an innovative elastic, high-transparency and robust overlay which can be combined with a great variety of flooring and decorative elements. Because it is free from PVC and plasticiser, it offers improved sustainability and its reduced thickness of 0.5mm (compared with 2 to 3 mm in standard flooring overlay) means less resources and waste. It is also self-healing, providing a unique surface layer which provides high scratch and abrasion resistance combined with high transparency, potentially increasing the final product's total lifespan.

www.roomskin.net