

News Release

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With BASF Ultramid® B3K, BOOXit Transport Boxes Meet the Demanding Requirements of Reusable Packaging Logistics

- **Lightweight and robust: BASF's polyamide 6 supports a new circular packaging solution for professional transport.**
- **Ultramid® B3K makes BOOXit boxes robust, durable and resistant to impact loads, even at very low temperatures.**
- **The reusable boxes can be stacked in offset configurations, rotated by 90°, handled by robotic systems and digitally connected to support efficient logistics operations.**

Ludwigshafen, 24. September 2026 - With Ultramid® B3K BK00464 from BASF, the BOOXit transport box relies on a high-performance polyamide 6 designed for demanding logistics applications. The easy-flow material combines high strength, durability and efficient injection molding processing, characteristics that are particularly valuable for reusable transport boxes for use in parcel, healthcare, and industrial logistics. In the BOOXit box, the material is utilized in a digitally integrable, automation-ready reusable system designed to replace conventional single-use cardboard packaging and heavy metal transport containers.

The BOOXit box has been designed as a modular system. It can be used with or without a lid, loaded from both the front and the top, features a patented locking mechanism, and is based on the standard 120 × 80 cm pallet footprint.

Ultramid® B3K as the Basis for Robust Logistics Solutions

Transport boxes for industrial and military applications must meet especially stringent requirements. They must withstand mechanical stress, offer long service life, be stackable, and perform reliably even under challenging environmental conditions.

This is precisely where Ultramid® B3K demonstrates its strengths. The material is an easy-flow, stabilized and fast-processing injection molding grade based on PA6. Its combination of excellent processability and balanced mechanical properties makes it particularly suitable for large technical components.

“With Ultramid® B3K, BASF supports our box solution, which combines several key requirements of modern logistics: robust mechanical performance, efficient processing, and the ability to implement intelligent reusable systems economically,” says Dr. Peter Entenfellner, CEO and Co-Founder of BOOXit. “When boxes are repeatedly used, stacked, transported and handled in automated systems, selecting the right material can make a decisive contribution to operational reliability.”

In addition to material performance, the BOOXit box also relies on intelligent design features. The CLICKit stacking system enables interlocked stacking, including at 90° angles for load securing purposes. Furthermore, boxes of different sizes can be stacked on top of one another.

Intelligent Reusable Logistics by Design

The BOOXit box combines reusability with smart logistics. Moisture protection, continuous tracking, NFC-based identification, ERP integration and automation compatibility provide the foundation for efficient circular logistics systems. With a lifetime exceeding 100 transport cycles and 100% recyclability, the box also meets demanding requirements for sustainability and resource efficiency.

The reusable concept delivers advantages in both sustainability and cost efficiency. By replacing single-use cardboard packaging and enabling repeated use, the BOOXit box can significantly reduce resource consumption, waste generation and CO₂ emissions. At the same time, its long service life and efficient return logistics lower total lifecycle costs.

Looking ahead, robust, stackable and digitally connected reusable transport boxes also open new opportunities in professional medical and pharmaceutical logistics.

Potential applications include packaging solutions for temperature-controlled transport of sensitive medical products, diagnostic materials and pharmaceutical supply chains.

Strong Injection-Molding Experience

The BOOXit box is manufactured by POLYTEC GROUP, a plastics specialist with extensive expertise in producing large injection-molded components. The combination of material know-how and reliable large-part manufacturing processes forms the basis for the box's high robustness and quality.

Premiere at Fakuma 2026

The BOOXit transport box will be showcased for the first time at the BASF booth (B4-4303) during Fakuma 2026. Visitors will have the opportunity to experience the innovative reusable logistics solution firsthand and engage with experts to discuss material properties, application areas and the benefits of intelligent reusable transport systems.

About BASF

At BASF, we create chemistry for a sustainable future. Our ambition: We want to be the preferred chemical company to enable our customers' green transformation. We combine economic success with environmental protection and social responsibility. Around 95,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises, as core businesses, the segments Chemicals, Materials, Industrial Solutions, and Nutrition & Care; our standalone businesses are bundled in the segments Surface Technologies and Agricultural Solutions. BASF generated sales of around €60 billion in 2025. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at www.basf.com.

About BASF's Performance Materials division

BASF's Performance Materials division drives the transformation of the plastics industry by uniting sustainability with high performance. Our materials expertise, deep industry know-how, and broad product portfolio make us the preferred partner for comprehensive solutions across the plastics lifecycle. With dedicated material-focused teams, strong R&D power, and a global production network close to our customers, we deliver tailored offerings that meet regional and industry-specific needs. Our products enhance performance and efficiency in key sectors such as automotive, construction, consumer goods, and industrial applications. Together with our partners, we embark

on #OurPlasticsJourney towards a more circular and sustainable future. In 2025, the Performance Materials division achieved global sales of €6.4 billion.

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