



FOR IMMEDIATE RELEASE

PlaX, the Innovative Plant-Based Fiber, Makes Its Debut in THE NORTH FACE and NEUTRALWORKS.

Three Years in Development, PlaX Boa Fleece Launches to Wide Acclaim



Kyoto, Japan – November 19th, 2025

Bioworks Corporation (Head Office: Soraku-gun, Kyoto; CEO: Koji Sakamoto) announces the first commercial launch of its plant-based synthetic fiber “PlaX,” modified from PLA using Bioworks’ proprietary technology, across two Goldwin Inc. brands (Head Office: Minato-ku, Tokyo; President: Takao Watanabe): THE NORTH FACE and NEUTRALWORKS..

Collaboration Background between Bioworks and Goldwin

Since 2022, Bioworks and Goldwin have been collaborating on the product development of PlaX. We are pleased to announce that, starting with Goldwin's 2025 Fall/Winter collections for **THE NORTH FACE** and **NEUTRALWORKS.**, outerwear made from PlaX-based pile fleece is now available.

The path to commercialization involved extensive prototyping and testing between the two companies. To meet Goldwin's high standards—particularly for dyeability and durability—the collaboration revisited yarn processing conditions and design, conducting repeated testing in cooperation with textile manufacturers and dyeing facilities, continuously improving the material. After approximately three years of preparation toward practical application, this effort has culminated in the adoption of PlaX in these collections.

Moving forward, both companies will continue to deepen collaboration in material development and product design, aiming to accelerate sustainable manufacturing. Through the expanded adoption of PlaX, Bioworks aims to contribute to reducing the environmental impact of the fashion industry and promoting a circular economy.



Products Featuring PlaX



THE NORTH FACE

Extreme Pile Hoodie Jacket

Price: ¥30,800 (tax included)

Colors: Black, Fossil Ivory

Sizes: S, M, L, XL

Materials:

<Outer Fabric / Hood Lining>

65% Polyester, 18% Acrylic, 17% Polyactic Acid

<Lining> 100% Polyester

<Hem & Cuffs> 70% Acrylic, 30% Wool

[Image: [THE NORTH FACE Extreme Pile Hoodie Jacket](#)]



NEUTRALWORKS.

SNOWMELT / Full Zip Fleece

Price: ¥41,800 (tax included)

Color: Black

Sizes: S, M, L, XL

Materials:

<Outer Fabric – Fleece Section>

65% Polyester, 18% Acrylic, 17% Polyactic Acid

<Outer Fabric – Woven Section>

40% Wool, 35% Polyester, 25% Nylon

<Lining> 100% Polyester

[Image: [NEUTRALWORKS. SNOWMELT FULL ZIP FLEECE](#)]

About the brands of Goldwin Inc.

THE NORTH FACE

Founded in San Francisco in 1966, THE NORTH FACE earned early acclaim with its innovative sleeping bags, the first in the industry to feature a “minimum temperature rating.” For more than half a century, the brand has continued to redefine the limits of outdoor performance through its sleeping bags, apparel, tents, and packs. Rather than simply imitating nature, THE NORTH FACE seeks to harness and harmonize its underlying principles to unlock new functionality—passing on to the next generation a lasting respect for nature, humanity, and craftsmanship.

Official Website: <https://www.goldwin.co.jp/tnf/>

NEUTRALWORKS.

Under the tagline “GET YOU READY,” NEUTRALWORKS. is a wellness brand created for those who wish to maintain a balanced mind and body through an active lifestyle, 24 hours a day. By offering products and services that support both physical and mental conditioning, the brand inspires people to live fuller, more mindful, and more dynamic lives.

Official Website: <https://www.neutralworks.jp/>

About Goldwin Inc.

Goldwin Inc. is a lifestyle creative company that empowers new challenges and expands human potential through three core pillars: creating things, creating experiences, and creating environments. With a strong focus on sports and the outdoors, the company integrates expertise in materials, technology, and environmental research across its diverse portfolio of brands. Its mission is to enhance human performance in both sport and daily life, while minimizing environmental impact and enriching the natural world—the very stage where humanity thrives.

Official Website: <https://www.goldwin.co.jp/>

About PlaX

PlaX is a plant-based synthetic fiber modified from PLA through Bioworks technology, engineered to deliver enhanced quality and performance while significantly reducing environmental impact. Developed from renewable resources such as sugarcane, it represents a next-generation alternative to petroleum-based fibers like polyester and is drawing global attention for its versatility and sustainability.

Key Features of PlaX fiber

- Reduces CO₂ emissions by approximately 70% in filament production and 50% in staple fiber production compared with polyester.

- Uses about 90% less water from raw material processing to yarn production compared with cotton.
- Biodegrades into water and CO₂ under industrial composting conditions.
- Compatible with chemical recycling processes that regenerate equivalent materials from waste; related research and development is in progress.
- Reduces CO₂ emissions during thermal disposal and generates no dioxins.
- Shows antibacterial effects derived from lactic acid, inhibiting the growth of Moraxella bacteria and Staphylococcus aureus.

About Bioworks Corporation

Bioworks Corporation is a material creation company envisioning a new ecosystem where the joy of making and the richness of wearing can coexist sustainably. Founded in 2015, Bioworks develops and markets PlaX, a plant-based synthetic fiber modified from PLA by Bioworks technology. By replacing petroleum-derived materials and advancing circular resource use, Bioworks strives to help build a circular society and a more sustainable environment—starting from the material itself.

Company Information

CEO: Koji Sakamoto

Head Office: 1-7 Hikaridai, Seika-cho, Soraku-gun, Kyoto (Keihanna Plaza Laboratory Building 7F)

Established: 2015

Business: Development, manufacturing, and sales of modified polylactic acid compounds (PlaX) and related products; initiatives promoting circular resource utilization

- Official Website: <https://www.bioworks.co.jp/>
- Official Online Store: <https://bio-plax.com/>
- LinkedIn: [linkedin.com/company/bioworks-corporation/](https://www.linkedin.com/company/bioworks-corporation/)

Press Kit

High-resolution product photos and logos available at:

https://drive.google.com/drive/folders/1y1DeIjMj-WIpC_8J14g-UcC_RPnasGkY?usp=sharing

Media Contact

Eri Yamaka, Mami Okonogi

Bioworks Corporation (Tokyo Office)

Toho Hibiya Building 7F, 1-2-2 Yurakucho, Chiyoda-ku, Tokyo 100-0006, Japan

Tel: +81-70-1583-3581

Email: press@bioworks.co.jp