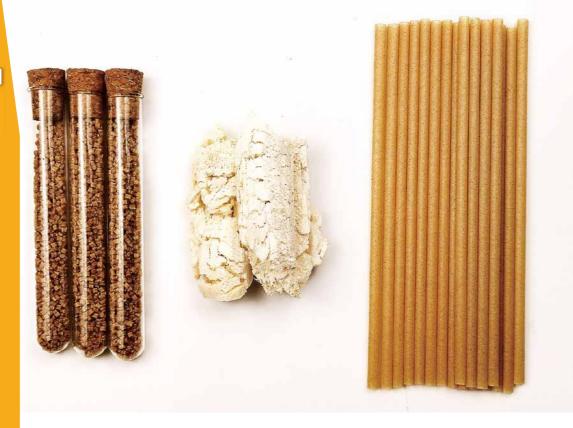
台灣先盟股份有限公司

Taiwan Plants Fiber Tech Alliance Co., Ltd.

New Plant-based **Fiber Composite Material**

Earth's Natural Cycle, Back to Before



About Taiwan Plants Fiber

Founded in 2016, Taiwan Plants Fiber Tech Alliance Co., Ltd. (PFTA) established "PFP" recycled fiber composite material brand and retail business brand "Non-Plastic." PFTA uses agricultural waste plant fiber to develop new plant-based composite materials and derived products, which may substitute about 60% applied products of the petrochemicalbased plastic thermosetting and thermoforming materials, achieving plastic reduction and agricultural waste circulation. Moreover, the firm integrates the biomass energy system and realizes complete decomposition and full compost closed full cycle application through exclusive rapid decomposition peat technology. These materials and products have received decomposition relevant certifications from countries, and renowned within the domestic and overseas channels, and high-end hospitality sector. Currently, goods are sold to more than 20 countries and efforts are made for environmental protection worldwide.





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Product Introduction

Through the agricultural waste materials recycling application technologies, PFTA developed new plant-based composite materials. The firm has developed various applied products with fiber composite materials, transforming waste into treasure due to its industrial product design capabilities. The products are not added with chemical dyes, d2w, plasticizer, thus the composition are natural and toxic free. Due to the rapid compost peat circulation technology from PFTA, the products are able to fully degrade, undergo compost treatment and become humus after 3 to 6 months, realizing closed natural cycle.

Agricultural Resources Circulation Process and Applications of **New Plant-Based Fiber Composite Materials**

1. Agriculture Waste Fiber **Treatment**

Covering sugarcane bagasse, bamboo, rice husk, wheatgrass, various straws, coffee grounds, various fruit peels, etc.



2. Material Production with **Circular Process**



Through exclusive formula and treatment

process, various agricultural or natural fibers are made into masterbatch or manufacturing process materials, after undergoing closed polymerization, Ring-Opening Metathesis Polymerization, and particles manufacturing process.



3. Manufacture of Applied Products

No.01 Thermosetting plant-based fiber material for hot-pressing process

For durable daily necessities such as

A. wood-pattern cups B. tableware



No.02 Thermoforming plant-based fiber straw exclusive material for extrusion process

Could be made into tubula products, such as A. sugarcane fiber straw B. coffee straw



No.03 Thermoforming plant-based fiber material for injection process

Could be made into consume materials related daily necessities, such as

A. sugarcane fiber toothbrush B. sugarcane fiber knife, fork,



No.04 Thermoforming plant-based fiber material for blister molding process

Could be made into vacuum extrusion molding products, including various packaging materials and tableware, such as

A. sugarcane fiber blister stone patterned plat B. sugarcane fiber blister cup, sauce cup



No.05 Thermoforming plant-based fiber material for bottle

Products that could be created from the pre heat bottle blowing process, including conta for food and daily necessities, such as

A. bio blown bottles/recycled fiber composite



No.06 Thermoforming plant-based fiber material for blown film process

Could be made into products applied within blown film process, such as

A. blown film testing board for recycled fiber B. recycled agriculture films and blown film ba



4. Closed Decomposing Compost

5. Rapid Peat Process

The recycled agriculture waste fiber materials shorten the time for decomposition, added to the compost fertilizer.





