

| 不比PE貴，還能全降解

竹纖維 降解地膜

— BAMBOO FIBER MULCH FILM —

- 全生物降解 | 翻耕入土，最後分解成二氧化碳和水，免回收
- 成品供應 | 現貨穩定、快速交貨、可客製尺寸
- 第三方認證 | DIN CERTCO 工業堆肥認證 · 生物基碳含量 97%

DIN CERTCO

生物基碳 97%

0956-966-986

pe0381@yahoo.com.tw

www.6521515.com.tw

BAMBOO FIBER MULCH FILM

竹纖維 | 省人力 | 全降解



40 年如一日的堅持， 做您產品最堅強的後盾

在高雄深耕超過 40 年，東億森實業見證了台灣產業的起飛。對我們而言，包裝從來不只是容器，而是保護客戶心血結晶的最後一道防線。

面對全球環保浪潮，東億森不停留在過去的輝煌——投入 PBAT、PLA 等生物可分解材質研發，導入符合國際標準的環保製程，並自 2024 年起攜手榮昊有限公司共同開發竹纖維全降解地膜，**目前已成功落地量產**。從傳統包裝的製造專家，走向協助企業實踐 ESG 永續的策略夥伴。

- 40+ 年** • 高雄深耕製造，見證台灣產業起飛
- 2024** • 攜手 **榮昊有限公司**，投入竹纖維全降解地膜研發
- NOW** • 技術突破，成功落地量產

100%

入土自然降解
分解成二氧化碳和水

現貨供應

品質穩定
全台各地出貨

40年

製造底蘊
高雄在地生產

BAMBOO FIBER MULCH FILM

竹纖維 | 省人力 | 全降解

PE 地膜用越久， 隱形成本越高

傳統 PE 地膜不降解，農業生產正面臨四大痛點

01 殘膜污染土壤

PE 無法降解，殘膜年年累積，破壞土壤結構，影響作物根系發育與產量。

02 回收人工成本高

每季需派人撿膜、翻土，人力費用逐年上漲，尤其缺工地區更吃不消。

03 限塑浪潮延伸農業

全球限塑浪潮延伸至農業，降解地膜需求逐年成長，提早佈局，搶佔商機。

04 殘膜難回收，露天燃燒釀空污

PE 殘膜混著土壤雜質，回收成本高、幾乎無法再利用，農民常就地燃燒處理，戴奧辛等有害氣體衝擊空氣品質與周邊居民健康。

→ 這些問題，竹纖維降解地膜一次解決

竹纖維降解地膜

現貨供應，**全台出貨**，直接鋪田使用。土壤中自然降解，免撿膜、免回收，省下大量人工成本。

品項	寬度	長度	重量
黑／銀黑地膜	90cm	400m	6.4kg/卷
黑／銀黑地膜	120cm	400m	8.5kg/卷
客製化尺寸	依需求	依需求	洽詢報價

- **厚度 0.018mm**
超薄高效，同重量覆蓋面積遠超傳統 PE 地膜
- **入土自然降解，免撿膜**
使用後直接翻耕入土，最後分解成二氧化碳和水
- **韌性佳，鋪設不易破裂**
竹纖維交織結構，提升抗拉伸與抗撕裂表現

降解五階段

鋪膜後約 90 天開始裂解，翻耕入土後一般約一年內分解完
實際時間依日照、溫度、濕度、土壤環境而異

01 誘導期

鋪膜後約 90 天，表面出現細小孔洞。紫外線已啟動降解。

02 開裂期

出現明顯裂紋，已可透水透氣，雨水和空氣進入土壤。

03 大裂期

強度大幅下降，微生物大量分解，進入快速崩解。

04 碎片期

碎成小片，不需人工撿拾，自然繼續分解。

05 無膜期

約一年內分解完，變成水、CO₂ 和有機質，回歸土壤。

ADVANTAGE

全程免撿膜、免回收
省下每季人工成本

降解後直接翻耕，零額外工序

竹纖維 vs PE 地膜

同樣覆蓋、不同結局——從成本到環保全面比較

	竹纖維降解地膜	PE 地膜
常見厚度	0.018 mm（更薄更輕）	0.02–0.04 mm
降解性	入土後約一年內分解，回歸土壤	不降解，殘膜永久留在土壤
收膜工序	免撿膜、免回收，直接翻耕	每季需人工撿膜，費時費力費荷包
綜合成本	換算每公尺成本不比 PE 貴，省人工	單價便宜，但回收與人工隱藏成本不低
環保趨勢	符合減塑趨勢，友善耕作	限塑趨勢下，使用限制恐增加

→ 同樣鋪田，收成後不用撿膜

從降解到安全，都有第三方認證背書

以下為部分認證，其他文件若有需求歡迎詢問

TÜVRheinland®
DIN CERTCO
Genau. Richtig.

NOTIFICATION OF REGISTRATION

Holder Fujian Yangzhu New Material Science & Technology Co., Ltd
No.19, Penghu Town Industrial Park, Yongchun County
362600 QUANZHOU, FUJIAN PROVINCE
CHINA

Product Compostable material

Type, Model Biodegradable Bamboo Fabric Materials

Testing basis DIN EN 13432:2000-12
ASTM D 6400:2023-03
Certification Scheme products made of industrially compostable materials (2023-07)

Mark of conformity 

Registration No. 7W0693

Valid until 2031-08-31

Right of use With this notification of registration the holder is granted the special entitlement for advertising purposes according to §8 (5) of the Regulations governing Use of the Mark and the Trademark Usage Guidelines for the mark of conformity shown above in conjunction with the specified registration number.
See annex for further information.

DAKKS
Deutsche Akkreditierungsstelle
D-22-11123-01-00
2025-08-12
Dipl.-Bio. Katharina Vehrung, M. Eng.
Certification Body

DIN CERTCO
DIN
DIN CERTCO Gesellschaft für Konformitätsbewertung mbH · Alboinstraße 56 · 12103 Berlin · www.dincertco.de

DIN CERTCO

工業堆肥降解認證

EN 13432 · 工業堆肥

SGS **BETA**
ISO/IEC 17025:2017-Accredited Testing Laboratory

Beta Analytic, LLC
4985 SW 74th Court
Miami, FL 33155 USA
Tel: (305) 667-5187
info@betalabservices.com

June 5, 2025

Lai XiaoRong
Fujian Yangzhu New Material Science & Technology Co., Ltd
No.19, Penghu Industrial Park, Yongchun County
Quanzhou, Fujian 362000
China

Dear Lai XiaoRong,

Please find enclosed your radiocarbon (C14) report for the material recently submitted. The result is reported as “% Biobased Carbon”. This indicates the percentage carbon from “natural” (plant or animal by-product) sources versus “synthetic” (petrochemical) sources. For reference, 100 % Biobased Carbon indicates that a material is entirely sourced from plants or animal by-products and 0 % Biobased Carbon indicates that a material did not contain any carbon from plants or animal by-products. A value in between represents a mixture of natural and fossil sources.

The analytical measurement is cited as “percent modern carbon (pMC)”. This is the percentage of C14 measured in the sample relative to a modern reference standard (NIST 4990C). The % Biobased Carbon content is calculated from pMC by applying a small adjustment factor for C14 in carbon dioxide in air today. It is important to note is that all internationally recognized standards using C14 assume that the plant or biomass feedstocks were obtained from natural environments.

Reported results are accredited to ISO/IEC 17025:2017 P.JLA #59423 standards and all chemistry was performed here in our laboratory and counted in our own accelerators in Miami, Florida.

The international standard method utilized for this analysis is cited under Summary of Results. The standard version used is the latest available as of the date reported (unless otherwise noted). The report also indicates if the result is relative to total carbon (TC) or only total organic carbon (TOC). When interpreting the results, please consider any communications you may have had with us regarding the analysis. If you have any questions, please contact us. We welcome your inquiries.

Sincerely,


Zeneida Cernada
Laboratory Management Group / IRMS / CRDS Instrument Manager

Page 1 of 5

Beta Analytic

生物基碳含量測試

Bio-based Carbon 97%

广微测
Gmicro Testing

ilac-MRA **CNAS**
中国认可
国际互认
检测
TESTING
CNAS L174

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report №. 2025ESQ00087R01E

Name of Sample Biodegradable Bamboo Fabric Materials

Applicant Fujian Yangzhu New Material Technology Co., Ltd

Test Type Entrustment Test

Address: Building 66, No.100 Central Xian Lie Road, Guangzhou, China

Postcode: 510070

Tel: (020)87137666

Fax: (020)87137668

Website: www.gddcm.com

Page 1 of 39

廣微測 Gmicro

竹纖維原料降解分析

崩解 92.6% · 生態無毒

CTI 华测检测

ilac-MRA **CNAS**
中国认可
国际互认
检测
TESTING
CNAS L1910

Test Report

Report No. A225004226810100101

Page 1 of 4

Company Name shown on Report Address Fujian Kristine Biotechnology Co., Ltd.
No. 27, Yanpu North Road, Anshang Village, Chendai Town, Jinjiang City, Fujian Province, China

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name Fully biodegradable bamboo fiber materials
Sample Received Date Jan. 20, 2025
Testing Period Jan. 20, 2025 to Jan. 24, 2025

Test Conducted:
As requested by the applicant. For details refer to next page(s)

Approved by 
Hill Zheng
Technical Manager

Date Jan. 24, 2025

No. T669102022

Center Testing Inc. International Group Co., Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com

CTI 華測檢測

竹纖維原料重金屬檢測

11 項重金屬



—— 聯絡我們 ——

從材料開始 做對土地更好的選擇

電話

0956-966-986

官方網站

www.6521515.com.tw

EMAIL

pe0381@yahoo.com.tw

客製尺寸 • 全台出貨 • 免撿膜回收 • 品質穩定



掃碼加 LINE