



CHUAN YUON HSIN
TECHNOLOGY CO., LTD

天然竹纖維吸管

- 純天然竹纖維製成
- 完全不含塑膠
- 台灣研發原料



純粹， 天然， 看得見。

歷時30年，研發植物纖維乾式工法，我們創造出最環保的製程、最天然的原料。

獨家研發技術，我們的吸管以100%天然竹纖維製造而成，使用後可直接以一般垃圾丟棄。



CHUAN YUON HSIN
TECHNOLOGY CO., LTD

我們的任務

從可自然分解的天然竹纖維吸管開始，我們致力改變世界的一次性使用產品。

我們下定決心研發出世上最環保的材質，經過許多努力，我們終於成功創造出可於自然環境分解的純天然竹纖維。純淨、天然且生生不息的地球。



天然竹纖維製造

台灣原竹

我們的製造工法支援多種植物纖維，我們挑選竹子是因為竹子天然抗菌、成本較低且對世界上自然資源、環境負擔最小的原材料。

乾式工法

歷時30年，研發植物纖維乾式工法，我們創造出最環保的製程、最天然的原料來取代塑膠產品。



我們欣賞
大自然朝氣蓬勃的瞬間
我們重視
生生不息的應用面

環境保護
不只是概念
還能夠具體實現





農業廢棄物

根據行政院農委會統計，
台灣每年農業廢棄物將近五百萬公噸，
約50%屬於農產品廢棄物。

塑膠製品對環境的影響



土地

含氯塑膠會釋出有害物質到周圍土壤或水源中。飲用這些水源的動物會有健康上的影響。塑膠一般是無法分解的，非生物可分解之塑膠，在分解時會釋放出溫室氣體，加速全球暖化。



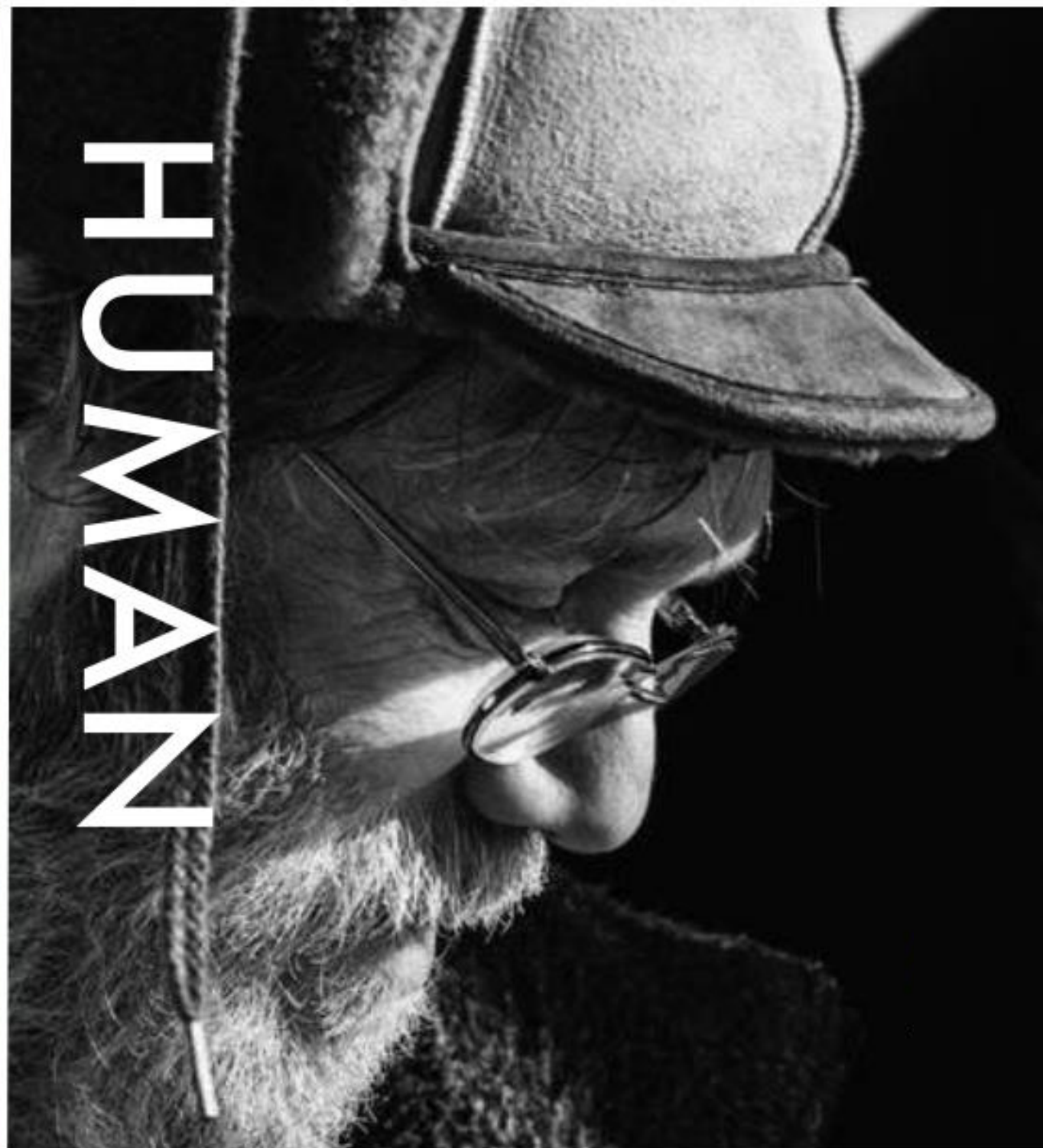
動物

包括無脊椎動物在內，已有260種物體被發現吃到塑膠製品或是被塑膠物品纏住，當動物被塑膠物品纏住時，其運動嚴重受限導致捕食困難，且動物多半會死亡，甚至也會有嚴重的劃傷或潰瘍。目前預計每年約有四十萬之海洋哺乳動物因塑膠污染而死，2004年時預估北海的鸕胃中平均有三十塊塑膠片。



海洋

海洋中的塑膠大約會在一年內降解,但不會完全降解,而且依塑膠的不同,可能會釋放酚甲烷或聚苯乙烯等有毒物質到水中。西元2012年,估計海洋中大約有1.65億噸的塑膠污染物。



人類

使用塑膠容器,遇到有溫度的水、酸鹼性飲料、酒精飲料。或多或少都會釋出有害人體的物質,所謂的耐熱塑膠,代表的也是耐熱不變形,其中最知名的塑化劑與三聚氫胺,都很難避免。當然,人體對於有毒物質的抗性因人而異,不抽菸得肺癌的也是大有人在。能夠完全無塑,是最好的選擇。



01 常用型居家餐具
不得不使用塑膠製品時, 以同樣的代價, 選擇天然餐具。

02 租用型餐具
透過租用方式, 定期更新, 環保、衛生, 最重要的是, 環保的代價很合理。

03 一次/多次型外帶餐具
我們提供熱飲、熱食外帶的最佳方案,
不用擔心高溫將塑膠製品內部的化學成分釋出, 達到真正環保的目的。



生物質產品 取代塑膠產品

隨著時代的演變，便宜及耐用的塑膠產品已經漸漸不符合現代人的需求。我們更關心產品對健康的影響，以及對環境的保護。

生物質材料經過新技術的加工處理，已經可以達到美觀、耐用而且價格親民的程度。

我們的產品不含塑化劑及其他有毒成分，而且埋在土壤中可被自然分解。





- ／ 可以使用洗碗機清洗
- ／ 請勿將餐具置入鍋內煮滾
- ／ 請勿長時間曝曬陽光下
- ／ 請勿冷凍及接觸火源
- ／ 可微波60秒內加熱至140度
- ／ 請勿直接放入烤箱
- ／ 深色食材易染天然材質, 請儘速清洗
- ／ 紫外線與熱水殺菌請勿超過30秒
- ／ 清洗時請使用海綿
- ／ 勿直接浸泡一天以上



不含任何塑膠、不含任何化學物品、可自然分解、可燃。
最好的一次性使用吸管解決方案。





reddot design award
winner 2019



全世界最環保、生態環境友善的吸管。



不含塑膠

吸管完全不含任何塑料、綠色塑膠、生物塑料、PLA。



可燃

使用後可安心的直接以一般垃圾丟棄，燃燒不排放任何有毒物質。



可自然分解

我們的天然竹纖維吸管可於自然環境下分解，維持循環生命。



檢驗合格

SGS、FDA、LFGB、HALALFOOD等食品級容器檢驗合格。



天然竹纖維

台灣研發、台灣製造，以台灣產竹纖維原料製作。



耐熱

耐熱溫度：-20~100°C，放置飲料中絕對不會軟化、變形。



純粹，
天然，
看得見。



絕不軟化。



檢驗合格。



產品規格

6mm

長度：130mm

Cocktail..... 雞尾酒



6mm

長度：210/230/260mm

Super Jumbo / Regular..... 一般尺寸



8mm

長度：210/230/260mm

Super Giant / Smoothie / Milkshake..... 冰沙、奶昔



12mm

長度：210/230/260mm

Colossal / Bubble Tea..... 珍珠



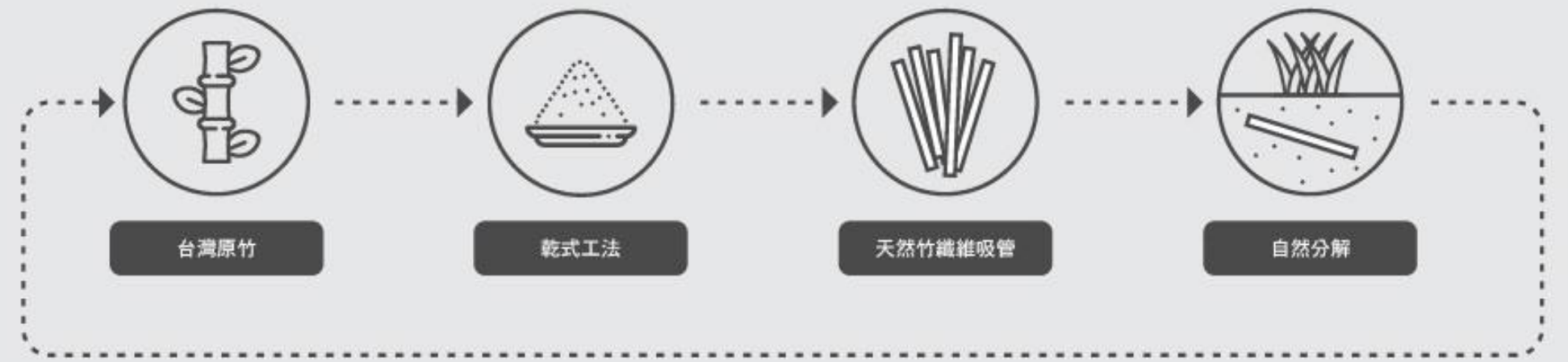
四階段全面環保

研發天然竹纖維吸管，是目前市面上唯一在【原料】、【製程】、【使用】、【廢棄】日個階段全面環保的產品

環保 · 需要永續



生生不息的未來



原料

我們的製造工法支援多種植物纖維，包括咖啡渣、椰子纖維、棕櫚纖維...等。但我們挑選竹子是因為在我們測試後，竹子是天然抗菌、成本較低且對環境負擔最小的原材料。



製程

我們製造程序上，首創『植物纖維乾式工法』，程序上完全不需要使用任何化學物質破壞植物結構提取纖維，而是採用研磨方式，將原材料研磨至我們需求的粉末，搭配我們研發的工法，製造天然竹纖維吸管，過程中完全不會製造廢水。碳排放上，我們製程機械所需溫度不能超過兩百度，可有效控制碳排放量。



使用

有別與紙漿製品，紙類製品容易在水中潰散，因此做為吸管除非加上塑膠或是必須達到一定的厚度，才能在水中維持結構。天然竹纖維吸管，採乾式工法製程，在水中並不會容易潰散，經使用者反饋，就算是24小時，連續浸泡在飲料中也不會鬆散。此外可以耐高溫至100°C。



廢棄

天然竹纖維吸管使用後為可燃性垃圾，且不會產生任何有毒化學物質。經過土壤掩埋，在一般自然環境中，45天以後即進入生物分解程序，90天後幾乎可以被土壤中的微生物完全分解。



分解測試

天然纖維吸管完全不含任何塑料，可在自然環境下分解。

1 個月後



2 個月後



3 個月後



4 個月後



5 個月後



6 個月後



國外重點客戶

MUJI
無印良品

MIGROS



BLUE BOTTLE
COFFEE



零塑環保竹纖維餐具



檢驗報告

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實

intertek

Total Quality. Assured.

天然竹纖維吸管以傅立葉轉換
紅外線光譜(FTIR)分析材質鑑定，
未驗出PVC、PET、PE、PP、PS、PLA

intertek
Total Quality Assured.

Test Report 測試報告

Number 報告號碼 : TWNC00815509
Date 報告日期 : Aug 14, 2019

Applicant 申請廠商 : Plant Fiber Technology Inc.
植群科技股份有限公司
No. 26-5, Da Zhen Rd.,
Shen Gang Dist., Taichung Taiwan 42947
台中市神岡區大鎮路 26-5 號

Sample Description 樣品描述:
One (1) Group of Submitted Samples Said To Be:
壹(一)組所送樣品標物各別:
Name of Sample 樣品名稱 : YOLLY Natural Bamboo Fiber Straw
YOLLY 天然竹纖維吸管
Country of Origin 原產地 : Taiwan
台灣
Manufacturer 製造廠商 : Plant Fiber Technology Inc.
植群科技股份有限公司
Date Sample Received 樣品收到日期 : Aug 13, 2019
Date Test Started 開始測試日期 : Aug 13, 2019

Test Conducted 測試內容:
Tests were conducted by applicant's request, for details please refer to attached pages.
依據客戶要求執行測試，結果請參考附件。

Remarks 備註:
Results were transferred from report No. TWNC00811847 dated Aug 13, 2019.
分析結果是來自 TWNC00811847，日期 Aug 13, 2019 的報告轉錄。

Authorized by 委任者:
On Behalf of Intertek Testing Services
Taiwan Limited
安捷國際檢驗股份有限公司
Mett Wang 王廷理
Sr. Manager 資深經理

Signed by 報告簽署人:
Thomas Chou 周士民
Manager 經理

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Intertek Testing Services Taiwan Ltd. SF, No. 423, Ruzhuang Rd., Neihu District, Taipei, 11432, Taiwan, R.O.C. Tel: (+86-2) 6602-2888 - 2797-6685 Fax: (+86-2) 6602-2420 www.intertek.com.tw

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Test Conducted 測試內容:
Material Identification 材質鑑定
By Fourier Transform-Infrared Spectrometer (FTIR) Analysis.
以傅立葉轉換紅外線光譜儀(FTIR)分析。

Number 報告號碼 : TWNC00815509

Test Item 測試項目	Result 結果
Polyvinyl Chloride (PVC) 聚氯乙烯	Light brown material straw (see the attach) PVC was not detected 未檢出聚氯乙烯
Polyethylene terephthalate (PET) 聚對苯二甲酸乙二酯	PET was not detected 未檢出聚對苯二甲酸乙二酯
Polyethylene (PE) 聚乙烯	PE was not detected 未檢出聚乙烯
Polypropylene (PP) 聚丙烯	PP was not detected 未檢出聚丙烯
Polystyrene (PS) 聚苯乙烯	PS was not detected 未檢出聚苯乙烯
Polyactic Acid (PLA) 聚乳酸	PLA was not detected 未檢出聚乳酸

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Number 報告號碼 : TWNC00815509

Sample photo 樣品照片:

End of Report 結束

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Reporting Statements of Compliance: Please note that the test results cannot be deemed as compliance with the decision rules which are based on the specifications of customers, regulations and standards, and they are not government requirement necessarily.

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檢驗報告



天然竹纖維吸管以傅立葉轉換紅外線光譜(FTIR)分析材質鑑定，未驗出一號至七號塑膠。

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實

SGS
Test Report Date: January 31, 2019
 Ally Jan Events LLC
 6558 N Vista St.
 San Gabriel, CA 91775
 United States

The following sample(s) was/were submitted and identified by/on behalf of the client as: **Natural Plant Fiber Straws**
 Color: Tan

Sample Received Date: 11/21/2018
 Testing Period: 11/29/2018

Revision Summary: Updated report as per Client's request

Test Requested: Please refer to the result summary.

Test Method & Results: Please refer to next page(s).

Result Summary

Test Requested	Conclusion
1. Polymer Identification by Fourier Transform Infrared Spectroscopy (FTIR)	See Test Results

Signed for and on behalf of SGS North America, Inc. Prepared By:
 Jennifer Veal Laboratory Manager, Chemistry Laboratory
 Shauna Gibbons Report Writer, Chemistry Laboratory

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SGS
Test Report Date: January 31, 2019

1. Polymer Identification by Fourier Transform Infrared Spectroscopy (FTIR)

Objective: To Identify Plastics 1-7

Test Method: Testing was performed using Fourier Transform Infrared Spectroscopy (FTIR) analytical instrumentation.

Results:

Sample	Results
Thick Straw	3-Nonanone
Thin Straw	3-Nonanone

Conclusion: Plastics 1-7 were not identified by FTIR.

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SGS
Test Report Date: January 31, 2019

Sample Photo(s):

SGS authenticates the photo(s) on the original report only

*** End of Report ***

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檢驗報告

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實



依據衛服部指定、台灣食品容器衛生安全標準食品器具、容器、包裝檢驗方式及依據塑膠類食品器具、容器、包裝之耐熱溫度標示符合性試驗方式
 檢測結果：無變形、顏色無變化、耐熱度100度C。

SGS

測試報告
Test Report
 號碼(No.): CT/2018/911004 日期(Date): 2018/07/23 頁數(Page): 1 of 4

樣品名稱(Sample Name): 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區社口里大坑路28之5號
 NO. 28-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 428, TAIWAN (R. O. C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant and):

送樣廠商(Sample Submitted by): 植物纖維股份有限公司 (PLANT FIBER TECHNOLOGY INC.)
 樣品名稱(Sample Description): BIODEGRADABLE BAMBOO FIBER STRAW (可分解竹纖維吸管)
 樣品型號(Sample No.): -
 樣品數量(Lot No.): -
 樣品材質(Sample Material): 竹纖維/澱粉 (BAMBOO FIBER+STARCH)
 製造日期(Manufacturing Date): -
 收件日期(Sample Receiving Date): 2018/06/27
 測試日期(Testing Period): 2018/06/27 TO 2018/07/20

測試需求(Test Requested):

(1) 依據客戶指定，參考中華民國食品器具衛生安全標準 (102.06.20 衛食字第1021350146號令修正) 進行測試。測試項目請參閱測試結果表。 / As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146) was amended on 2013/09/20) to conduct test. Please refer to result table for testing item(s).

(2) 依據客戶指定，參考中華民國食品衛生管理法(103.12.10)第25條進行測試。測試項目請參閱測試結果表。 / As specified by client, with reference to Act Governing Food Sanitation Article 25 (amended and promulgated on Dec. 16, 2014) to conduct test. Please refer to result table for testing item(s).

測試結果(Test Results): 請參閱下一頁 (Please refer to following pages).

Signed for and on behalf of
 SGS TAIWAN LTD
 Chemical Laboratory - Taipei

SGS

測試報告
Test Report
 號碼(No.): CT/2018/911004 日期(Date): 2018/07/23 頁數(Page): 2 of 6

樣品名稱(Sample Name): 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區社口里大坑路28之5號
 NO. 28-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 428, TAIWAN (R. O. C.)

測試結果[Test Results]

測試項目(PART NAME No.): 淺棕色吸管 (LT. BROWN STRAW)

(1)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result) No. 1	標準 (Limit)
螢光增白劑 / Fluorescent Brightening Agents	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1021950329 announced, September 6, 2013).	-	Negative	Negative
甲醛 (水, 60°C, 30分鐘) / Formaldehyde (water, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1021950329 announced, October 29, 2015).	4	Negative	Negative
揮發性有機物 (水, 25°C, 1小時) / Volatile organic residue (water, 25°C, 1 hr)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	10	n.d.	30
氯仿可溶物 (水, 60°C, 30分鐘) / Chloroform soluble (water, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	10	18.8	60
氯仿可溶物 (4% 醋酸, 60°C, 30分鐘) / Chloroform soluble (4% acetic acid, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	10	31.8	60
氯仿可溶物 (20% 酒精, 60°C, 30分鐘) / Chloroform soluble (20% alcohol, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	10	37.8	60

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測試報告
Test Report
 號碼(No.): CT/2018/911004 日期(Date): 2018/07/23 頁數(Page): 3 of 6

樣品名稱(Sample Name): 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區社口里大坑路28之5號
 NO. 28-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 428, TAIWAN (R. O. C.)

(1)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result) No. 1	標準 (Limit)
砷 As(As) ³⁺ (水, 60°C, 30分鐘) / Arsenic (As) (water, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	0.1	Negative	0.1
砷 As(As) ⁵⁺ (水, 60°C, 30分鐘) / Arsenic (As) (water, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	0.1	Negative	0.1
鉛 Pb (水, 60°C, 30分鐘) / Lead (water, 60°C, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-食品塑膠類塑膠製品之檢驗 (MOHW0001.02, 104年10月29日衛食字第1041901956號令), / According to Sanitation Standard for Food Utensils, Containers and Packages - Plastic Uncoated Paper Products (MOHW Food No. 1041901956 announced, October 29, 2015).	1	Negative	1

(2)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result) No. 1	標準 (Limit)
耐熱性試驗 / Heat Tolerance (100°C, 1 hr)	-	依據塑膠類食品器具衛生安全標準之耐熱溫度標示符合性試驗方法 (MOHW0003.02, 106年11月13日衛食字第1061902219號令), / According to Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MOHW0003.02, MOHW Food No. 1061902219 announced, November 13, 2017).	-	無變形、顏色無變化 / No appearance change	-

檢驗報告

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實



依據美國FDA食品容器衛生安全標準，參考21CFR 178.3800(2015)，以氣相層析質譜儀檢測，未檢驗出五氯酚 / PCP (Pentachlorophenol)

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測試報告
Test Report

號碼(No.): CT/2018/61111 日期(Date): 2018/07/06 頁數(Page): 1 of 3

植群科技股份有限公司
PLANT FIBER TECHNOLOGY INC.
臺中市神岡區鎮口里大坑路25-5號
NO. 25-5, DAZIN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

以下測試樣品係由申請廠商提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By): 植群科技股份有限公司 (PLANT FIBER TECHNOLOGY INC.)
樣品名稱(Sample Description): BIODEGRADABLE BARBOO FIBER STEAK (可分解纖維吸盤)
樣品材質(Sample Material): 竹纖維+澱粉 (BARBOO FIBER+STARCH)
收樣日期(Sample Receiving Date): 2018/06/27
測試期間(Testing Period): 2018/06/27 TO 2018/07/06

測試結果(Test Results): 請參閱下一頁 (Please refer to following pages).

Troy-Ghang Maung-Frech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試報告
Test Report

號碼(No.): CT/2018/61111 日期(Date): 2018/07/06 頁數(Page): 2 of 3

植群科技股份有限公司
PLANT FIBER TECHNOLOGY INC.
臺中市神岡區鎮口里大坑路25-5號
NO. 25-5, DAZIN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

測試結果(Test Results)

測試樣品(POST NAME)No.: 1 淡棕色吸盤 (LT. BROWN STEAK)

測試項目 (Test Item)	單位 (Unit)	測試方法 (Method)	方法檢測 極限值 (MDL)	結果 (Result)
五氯酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	參考21 CFR 178.3800 (2015) + α及β 層析質譜儀檢測。 / With reference to 21 CFR 178.3800 (2015). Analysis was performed by GC/MS.	1	n.d.

備註(Note):
1. mg/kg = ppm (1.1x10³)
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法檢測極限值)

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測試報告
Test Report

號碼(No.): CT/2018/61111 日期(Date): 2018/07/06 頁數(Page): 3 of 3

植群科技股份有限公司
PLANT FIBER TECHNOLOGY INC.
臺中市神岡區鎮口里大坑路25-5號
NO. 25-5, DAZIN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

* 照片中如有箭頭標記，則表示為實際檢測之樣品/部位。
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CT/2018/61111

** 報告結束 (End of Report) **

檢驗報告

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實



依據美國LFGB食品容器衛生安全標準 (參照EU測試方法)，參考德國於2005年9月1日公告的食品、日用品及飼料法(LFBG)第30條與第31調及修訂案。

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測試報告
Test Report
 號碼(No.): CT/2018/01112A 日期(Date): 2018/07/23 頁數(Page): 1 of 6
 樣品名稱: 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區鎮口里大路25-5號
 NO. 25-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

以下測試樣品係由申請人提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
 送樣名稱 (Sample Submitted): 植物纖維股份有限公司 (PLANT FIBER TECHNOLOGY INC.)
 樣品名稱 (Sample Description): BIODEGRADABLE BAMBOO FIBER STRAP (可分解竹纖維帶)
 樣品材質 (Sample Material): 竹纖維/澱粉 (BAMBOO FIBER+STARCH)
 送樣日期 (Sample Receiving Date): 2018/06/27
 測試期間 (Testing Period): 2018/06/27 TO 2018/07/12

測試要求 (Test Requested):
 根據客戶指定，參照德國於2005年9月1日公告的食品、日用品及飼料法(LFBG)第30條與第31條及其修訂案，測試項目參照測試結果表 / As specified by client, refer to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments. Please refer to result table for testing item(s).

測試結果 (Test Results): 請參閱下一頁 (Please refer to following pages).

Sing Hsing
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

SGS

測試報告
Test Report
 號碼(No.): CT/2018/01112A 日期(Date): 2018/07/23 頁數(Page): 2 of 6
 樣品名稱: 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區鎮口里大路25-5號
 NO. 25-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

測試結果 (Test Results)
 測試項目 (PART NAME) No. 1: 淺棕色帆布 (LT. BROWN STRAP)

測試項目 (Test Item)	單位 (Unit)	測試方法 (Method)	限制 (Limit)	結果 (Result)	備註 (Remarks)
砷 / Arsenic content (As)	mg/kg	樣品以微波消化法處理後，以ICP-OES分析 / Microwave Digestion. Analysis was performed by ICP-OES.	2	n.d.	▲
五氯酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	參照LFBG §64 §81, § 82, §2. 8 (2001)，以液相層析法/質譜儀檢測。 / With reference to LFBG §64 §81, § 82, §2. 8 (2001), Analysis was performed by GC/MS.	0.05	n.d.	0.15
甲氧 (Specific Migration of Formaldehyde)	mg/kg	參照EN 13130-1 (2004)，以FT-IR分光光度法分析。 / With reference to EN 13130-1 (2004), Analysis was performed by FT-IR spectrometer. (3%醋酸 / 2% acetic acid, 60°C, 10 days)	0.1	0.304	15 (□) 1)
農藥殘留量 / Pesticides	mg/kg	參照EPA方法 8081B, 3021B, 3020C, 以GC MS, GC ECD, GC NPD & HPLC BAD MSD等。 / With reference to US EPA Method 8081B, 3020B, 3020C. Analysis was performed by GC MS, GC ECD, GC NPD & HPLC BAD MSD.	-	n.d.	▲
感官測試 (氣味) / Sensorial examination odour	-	參照DIN 10955 (2004) / With reference to DIN 10955 (2004).	-	1.0	2.5
感官測試 (味道) / Sensorial examination taste	-	參照DIN 10955 (2004) / With reference to DIN 10955 (2004).	-	1.0	2.5

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測試報告
Test Report
 號碼(No.): CT/2018/01112A 日期(Date): 2018/07/23 頁數(Page): 4 of 6
 樣品名稱: 植物纖維股份有限公司
 PLANT FIBER TECHNOLOGY INC.
 臺中市神岡區鎮口里大路25-5號
 NO. 25-5, DAZEN RD., SHENGANG DIST., TAICHUNG CITY 429, TAIWAN (R. O. C.)

農藥殘留量及對應的檢測限 / List of Pesticides with Detection Limits

農藥名稱 (Pesticide Name)	CAS No.	檢測限 (Detection Limit)	CAS No.	檢測限 (Detection Limit)	
Azinphosmethyl	86-50-0	0.05	Hexachlorobenzene	118-74-1	0.05
Alphachloroethyl	2042-71-9	0.05	p-Hexachlorocyclohexane	319-84-6	0.05
Aldrin	302-52-2	0.05	β-Hexachlorocyclohexane	319-85-7	0.05
Bromophos-ethyl	4332-71-6	0.05	γ-Hexachlorocyclohexane	319-86-8	0.05
Carbaryl	63-25-1	0.2	Lindane (α-PCP)	50-29-9	0.05
Chlorfenvinphos	57-74-9	0.2	Malathion	121-75-6	0.2
Cyfluthrin	6164-93-3	0.5	Metamiphos	30265-82-6	0.2
Cyfluthrin	56-72-4	0.05	Methoxychlor	72-43-6	0.05
Cyfluthrin	6339-37-8	0.2	Mirex	2385-65-8	0.05
Cyfluthrin	9146-08-6	0.05	Monrotonaphos	8523-22-4	0.2
Cypermethrin	52116-07-6	0.05	Permethrin	56-56-2	0.05
DEP	78-48-0	0.2	Permethrin-methyl	298-03-0	0.2
Deltamethrin	52116-07-6	0.05	Propargylphosphos	31218-83-4	0.1
Ethion	53-19-0	0.05	Prothiofos	41198-08-7	0.05
Ethion	72-54-8	0.05	Quinalphos	15933-03-8	0.2
Ethion	34218-02-6	0.05	Taufluthin (Camphechlor)	8001-26-2	0.2
Ethion	72-55-9	0.05	Terbufos	1583-03-8	0.2
Ethion	50-29-3	0.05	2,4,5-T	93-76-5	0.8
Ethion	789-92-6	0.05	2,4-D	94-75-7	0.5
Ethion	333-41-6	0.2	Captan	2429-06-1	0.05
Ethion	147-66-2	0.2	Chlorfenvinphos	479-99-6	0.05
Ethion	66-87-1	0.05	Chlorpyrifos	120-38-6	0.5
Ethion	65-51-6	0.05	Cinopab and salts	88-05-7	0.8
Ethion	969-99-6	0.05	MCFA	94-71-6	0.8
Ethion	32134-6-8	0.05	MCPE	94-81-0	0.8
Ethion	72-26-8	0.05	Mecoprop	93-66-2	0.8
Ethion	86230-64-4	0.05	Phosphin (Hexaphos)	7780-34-7	0.8
Ethion	81530-63-1	0.05	Phthalic	72-94-0	0.2
Ethion	78-44-8	0.05	Stropane	8001-60-1	0.2
Ethion	1024-67-0	0.05	Talstarone	281-75-0	0.2
Ethion	405-73-6	0.2	TaCP	931-95-8	0.05
Ethion	4236-78-1	0.2			
Ethion	143-50-9	0.2			

檢驗報告

力爭設立標竿，以創新發明及卓越品創造出最環保的產品。我們持之以恆的堅持使用天然材料環保製程，並透過全球文明的各個檢測機構來檢驗以確保我們的願景落實



財團法人台北清真寺基金會認證
產品：全永欣科技股份有限公司之
天然竹纖維吸管。

