



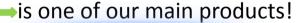
DONGGUAN CIGNO LEATHER CO., LTD.

Professional manufacturer, 15 years of experience, covers 29,000 SQM, have 5 production lines, more than 450 workers, monthly output 2,900,000 meters.

OEM/ODM experienced faux leather supplier for DIOR、CK with Vegan USDA & GRS certification



Biobased Carbon Content (Vegan) PU Leather Products





- 1) Bio-based materials refer to raw materials derived wholly or partly from biomass. Products produced from bio-based materials are bio-based products.
- Our materials are made from Bamboo, Wood, Corn, Cactus, Apple, Gratpe, Seaweed and Pineapple, etc.
- 3) We have USDA Certificate and Test Reports
- 3) For the % Bio, we can make it from 10%-80%. The Lab can test out the % Bio using Carbon-14.





















Bio-Based Carbon Content (Vegan) PU leather



Regular PU Leather



Made from natural plants and fruits



Reduce carbon dioxide emissions

The average production of one ton of dianol, according to the biological method of carbon dioxide emissions 2.55 tons, a reduction of 62.3%



As waste incineration, no secondary to the damage environment



Gabage can turn into organic fertilizer, then can help plants grow.



Completely Biodegradable

- *Degrade automatically in the natural environment.
- *In the soil environment, around **300 days** can be completely decomposed.
- *In the marine environment, around **900 days** can be completely decomposed.



Made from Petroleum by-product



Carbon emission

The average production of one ton of dianol, according to the petroleum method of carbon dioxide emissions 5.28 tons.



As waste incineration, produce secondary damage to the environment



Gabage couldn't turn into organic fertilizer, damage soil environment, harm plant growth



Couldn't biodegradable



A magical journey from bamboo to bamboo fiber bio-leather leather.....



Bamboo Pulp

Bamboo is first made into bamboo pulp suitable for spinning







Bamboo Pulp Fiber

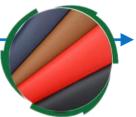
Bamboo pulp fiber is then obtained by wet spinning





Bamboo fiber fabric

The bamboo fiber can can be made into nonwoven and knitted fabric



Bamboo Vegan PU Leather are finished proceeding with Babboo fabric backing base.





Apple Vegan PU leather



An interesting story.....

The raw material of apple leather is mainly processed from apple waste produced in food processing.

The first is to use flour bags to collect people's juice after the waste apple residue, and then a material processing plant, adding dyes and adhesives into the apple residue to develop a can replace animal leather use of apple leather!

Apple Vegan pu leather is widely used in clothing, handbags, shoes and furniture decoration.





USDA Certified

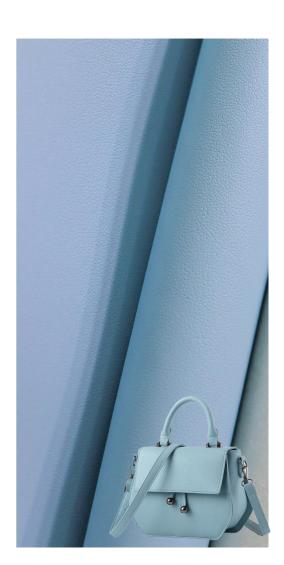
Pineapple Vegan PU Leather

The leaves left after the pineapple is harvested are collected, and the long fibers extracted from the leaves are washed, dried, and purified to produce fluff leaf fibers.





Pineapple leaf fiber and cornbased polylactic acid mix, through mechanical processing into non-woven fabric, the basic material of pineapple leather, and then shipped to the leather factory, according to different uses, manufacture different series of leather raw materials.





Certificate From USDA



Notice of Certification / Application ID: 11284

ited States Department of Agriculture

July 01, 2022

Dongguan Boze Leather Co., Ltd ShuerShang building 13 floor .Cuiyuan North Road Houjie Town Dongguan City. 523955

Dear Lue Fang.

On behalf of the United States Department of Agriculture's (USDA's) BioPreferred® program, I am pleased to inform you that your application for use of the USDA Certified Biobased Product Label for Vegannine Bio Leather has been approved as of June 29, 2022. The test result for Vegannine Bio Leather indicates that its biobased content is 72%. According to your application, you may now use the Label on the product Vegannine Bio Leather

The Label remains in effect as long as the product or package is manufactured and marketed in accordance with the approved application and requirements in the US Code of Federal Regulations Title 7§3202 Voluntary Labeling Program for Biobased Products unless one of the following conditions occurs:

1. Product or package reformulation: The product or package formulation of the certified product is changed such that the biobased content is reduced to a level below that reported in the approved application. When products have been reformulated, a new application for certification must be submitted in order to resume using the USDA Certified Biobased Product Label; and/or.

2. New minimum biobased content: USDA revises the minimum biobased content required for a product or package to be eligible to display the certification mark and the product or package does not meet the revised minimum. USDA will inform you that your certification is no longer valid. In this case, you must increase the biobased content of your product to be at or above the revised minimum and re-apply for certification within 60 days in order to continue to use the certification mark.

Please note that all certifications are subject to USDA's periodic auditing activities. You must read the BioPreferred Brand Guidelines and Graphic Standards document prior to downloading label artwork (eAuthentication login is required).

This email is your official notice of biobased product certification. Please print and save this email should you need to provide certification documentation to any entity

The BioPreferred program looks forward to a long and successful partnership with you in the promotion of biobased products. If you have additional questions or would like further information, you may call the BioPreferred Program Information Line at (202) 643-3287 or email us at help@usdabiopreferred.net.

USDA BioPreferred Program Staff



Beta Analytic, Inc. 4985 SW 74th Court Miami El 33155 USA Fax: 305-663-0964

Test Reprot 72% Biobased Carbon Content

ISO/IEC 17025:2017-Accredited Testing Laboratory

June 25, 2022

Dongguan Boze Leather Co., Ltd. ShuerShang building 13 floor Culvuan North Road Houlie Town Guangdong , 523000 Dear Miss Fang

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 % Richased Carbon content is calculated from nMC 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 higmass feedstocks were obtained from patural environ

Reported results are accredited to ISO/IEC 17025:2017 Testing Accreditation PJLA #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 supplishings of the data reported (unless otherwise poted). The report sign indicates if the result is relative to total carbon (TC) or only total prosinic carbon (TOC). When intermeting 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.

Beta Analytic

Reta Analytic Inc 4985 SW 74th Court Miami, FL 33155 USA Tel: 305-667-5167 Fax: 305-663-0964

ISO/IEC 17025:2017-Accredited Testing Laboratory

ASTM D6866-22 Method B (AMS) TOC

Certificate Number: 519721630750130093 Validation:

Dongguan Boze Leather Co., Ltd. Date Received June 17, 2022

Date Reported Veganpine bio leather / (USDA Application# 11284) Submitter Lahel

RESULT: 72 % Biobased Carbon Content (as a fraction

of total organic carbon)

Beta-630750 Percent modern carbon (pMC) 72.14 +/- 0.22 pMC Atmospheric adjustment factor (REF) 100.0: = pMC/1.000









Disclosures: All work was done at Beta Analytic in its own chemistry lab and AMSs. No subcontractors were used. Beta's chemistry laboratory and AMS do not react or measure artificial C 14 used in biomedical and environmental AMS studies. Beta is a C14tracer-free facility. Validating quality assurance is verified with a Quality Assurance report posted separately to the web library containing the PDF downloadable copy of this report.

Precision on the RESULT is cited as +/- 3% (absolute). The cited precision on the analytical measure (pMC) is 1 sigma (1 relative standard deviation). The reported result only applies to the analyzed material. The accuracy of the RESULT relies on the measured carbon in the analyzed material having been in recent equilibrium with CO2 in the air and/or from fossil carbon (more than 40,000 years old) such as petroleum or coal. The RESULT only applies to relative carbon content, not to relative mass content. The RESULT is calculated by adjusting pMC by the applicable "Atmospheric adjustment factor (REF)" cited in this

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ВЕТЯ



| | cigno leather | 中文 | | | English |
|---------------|---------------|-------------------------|------------------------|--|-------------------------------------|
| 产品编号 BZ-NH05: | | BZ-NH0522-01 黑色 | Item No. | | BZ-NH0522-01 Black |
| 产品名称 | | 生物基PU材料 | Name | | Bio-Based Vegan PU Leather |
| 产品幅宽*厚度 | | 52"1.2mm+/-0.05mm | Width*Thickness | | 52"1.2mm+/-0.05mm |
| 主要成分 | | 生物基碳成分66%+34%PU | Main Ingredient | | Bio-Based Carbon 66% + 34% PU Resi |
| 5用范围 | | 鞋子,手袋及其它产品 | Main Aplication | | Shoes, Bags and other products |
| | 环保项目 | 数值 | - 12 | Testing Items | Results |
| | 含铅量 | <90PPM | ECO-Friendly Standerds | Lead | <90PPM |
| | 含镉量 | ≤75PPM | | Cadmium | ≤75PPM |
| | 甲醛 | ≤75PPM | | Formaldehyde | ≤75PPM |
| | 偶氮染料 | ≤30PPM | | AZO Dyes | ≤30PPM |
| ŦΖ | 有机锡化合物 | ≤1PPM | | Organotin compound | ≤1PPM |
| 环保标 | 苯酚 | <5PPM | | Phenol | <5PPM |
| 标 | 六价铬 | <3PPM | | Hexavalent Chromium | <3PPM |
| 准 | 分散染料 | 不被检测到 | | Disperse Dyes | ND |
| | 富马酸二甲酯 | <0.1PPM | | DMFU | <0.1PPM |
| 物性标 | 短链氯化石蜡 | <1000PPM | | Short chain chlorinated paraffins | <1000PPM |
| | 邻苯二甲酸盐 | 16P总和<1000PPM | | Phthalates | Total 16P<1000PPM |
| | 多环芳香烃 | 符合国际标准 | | РАН | Comply with International standards |
| | 八大重金属检测 | 符合国际标准 | Physica | Heavy Metals:EN71-3 | Comply with International standards |
| | 美国加洲65项 | 符合国际标准 | P | CA Prop 65 | Comply with International standards |
| 杯准 | 剥离强度(纬向&经向) | 2.5-3.0 KG ± 0.3KG /3CM | Property | Peeling Strength (Zonal & Meridional) | 2.5-3.0 KG ± 0.3KG /3CM |
| | 撕裂强度(纬向&经向) | 1.0-1.8 kgf | | Tearing Strength (Zonal & Meridional) | 1.0-1.8 kgf |
| | 耐磨强度 | CS-10#砂轮750g砝码,1200转 | | Abrasion Resistance | CS-10#, 750 , 1200R |
| | 湿擦 | 4-5級 | | Wet Wipe Strength | 4-5 grade |
| | | | | | |

Dry Wipe Strength

4-5 grade

4-5级

干擦



Our Bio-based Carbon Content (Vegan) PU leather Service item!

1) Specification: Thickness 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm and other thickess you want.

Width: 52" or 27"

2) Vegan Source: Bamboo, Wood, Corn, Apple, Pineapple, Grape, Seaweed and other kind you want.

3) Bio Content: 10% to 80%

There is no 100% Bio of vegan pu leather.

Around 60% Bio is the perfect selection to keep the material's quality and durability.

No one would like substitue durablity for sustainability to seek high % Bio.

4) PU Backing: Non-Woven & Knitted fabric

5) Lead Time: 2-3 days for our available materials

7-10 days for the new develop sample 15-20 days for the bulk production materials

6) MOQ: a) If we have stock backing fabric, it's 300 yards per color/texture.

For the materials on our swatch cards, we usually have the stock backing fabric.

It can be negotiated on MOQ, we can try to solve the problem, even small quantity needed.

b) If total new vegan PU leather and no available backing fabric, the MOQ is total 2000 meters.

7) Packing Item: Packed in rolls, each roll 40-50 yards depends on the thickness.

Packed in two layer's plastic bags, clear plastic bag inside and weaving plastic bag outside.

Or according to custmer requests.













Item No.: BZ-NH0502
Item Name: Vegan PU Leather

Size: 0.6mm X 52" (Non-Woven fabric backing)

Composition: 51%Bio+49% PU

Feature: Soft hand feeling, abrasion-resisatance, tear-resistance
Usage: Shoes, bags, Note Book Cover, Phone Case and other products

Item No.: BZ-NH0503
Item Name: Vegan PU Leather

Size: 0.6mm X 52" (Non-Woven fabric backing)

Composition: 51%Bio+49% PU

Feature: Soft hand feeling, abrasion-resisatance, tear-resistance

Usage: Shoes, bags, Note Book Cover, Phone Case and other products





Item No.: BZ-NH0535

Item Name: Small Lychee Texture Vegan PU Leather Size: 0.6mm X 52" (Knitted fabric backing)

Composition: 45-65%Bio+34% PU

Feature: Soft hand feeling, abrasion-resisatance, tear-resistance
Usage: Shoes, bags, garments, pants and other products

Item No.: BZ-NH0540

Item Name: Small Lychee Texture Vegan PU Leather
Size: 1.0mm X 52" (Knitted fabric backing)

Composition: 45-65%Bio+34% PU

Feature: Soft hand feeling, abrasion-resisatance, tear-resistance

Usage: Shoes, bags, garments and other products









Item No.: BZ-NH0542

Item Name: Imitation Weaving Vegan PU Leather
Size: 1.0mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: The surface texture has strong 3-D effects, soft hand feeling,

Abrasion-resisatance, tear-resistance

Usage: Shoes, bags and other products.

More available textures for selection!

Item No.: BZ-NH0543

Item Name: Ripple Texture Vegan PU Leather

Size: 1.0mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: The surface texture has strong 3-D effects. soft hand feeling,

Abrasion-resistance, Tear-resistance

Usage: Shoes, bags and other products.





Number BZ-NH0540 specification 52"*1.2±0.05mm composition 55-66%BIO +34%PU









Item No.: BZ-NH0540

Item Name: Small Lychee Texture Vegan PU Leather
Size: 1.2mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: Soft hand feeling, abrasion-resisatance, tear-resistance

Usage: Shoes, bags and other products

Item No.: BZ-NH0541

Item Name: Smooth Matte Vegan PU Leather

Size: 1.2mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: Smooth texture, abrasion-resisatance, tear-resistance

Usage: Shoes, bags and other products.















Item No.: BZ-NH0522
Item Name: Vegan PU Leather

Size: 1.2mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: Abrasion-resisatance, tear-resistance
Usage: Shoes, bags and other products

Item No.: BZ-NH0532

Item Name: Corss Texture Vegan PU Leather

Size: 1.2mm X 52" (Non-Woven fabric backing)

Composition: 55-65%Bio+34% PU

Feature: Abrasion-resisatance, tear-resistance
Usage: Shoes, bags and other products.





For more information of the Vegan PU Leatehr, please help contact us!

Dongguan Cigno Leather Co.,Ltd

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