



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

—————→ is one of our main 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.
- 2) Our materials are made from *Bamboo, Wood, Corn, Cactus, Apple, Grape, 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



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.

V
S

Regular PU Leather



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 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.



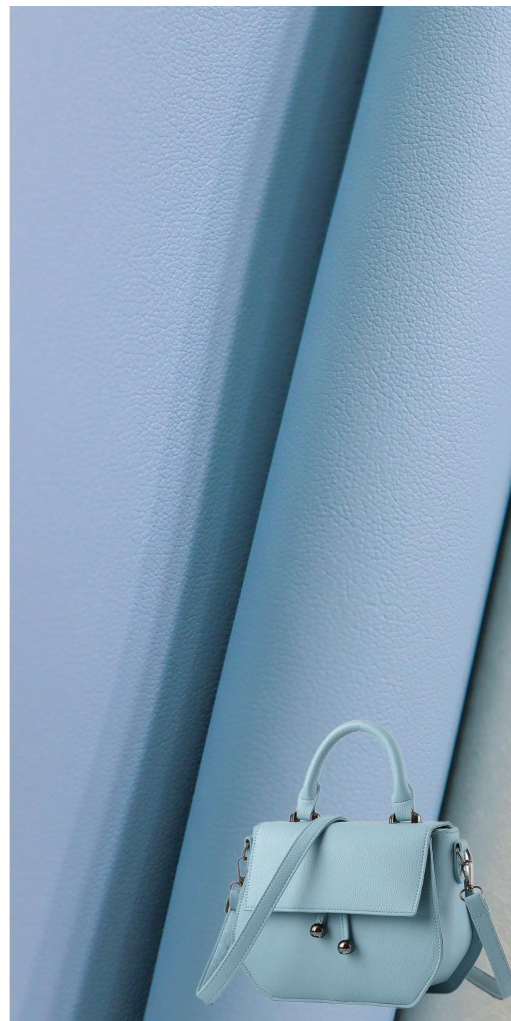
USDA
Certified

*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 corn-based 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

Test Reprt 72% Biobased Carbon Content



United States Department of Agriculture www.biopreferred.gov

Notice of Certification / Application ID: 11284

July 01, 2022

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

Dear Luc 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 Vegaprene Bio Leather has been approved as of June 29, 2022. The test result for Vegaprene Bio Leather indicates that its biobased content is 72%. According to your application, you may now use the Label on the product Vegaprene 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 occur:



- 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,
- 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 (Authentication 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@biopreferred.net.

Sincerely,
USDA BioPreferred Program Staff

ISO/IEC 17025:2017-Accredited Testing Laboratory

June 25, 2022


Luc Fang
Dongguan Boze Leather Co., Ltd
ShueShang Building 13 floor
Cuiyuan North Road Houjie Town
Dongguan
Guangdong, 523000
China
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 % Biobased Carbon content is calculated from pMC by applying a small adjustment factor for C14 or 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 Testing Accreditation P.J.A #59423 standards and all chemistry uses 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 communication you may have had with us regarding the analysis. If you have any questions please contact us. We welcome your inquiries.

Sincerely,

Ronald E. Haffel, President



Beta Analytic, Inc.
4985 SW 74th Court
Miami, FL 33155 USA
Tel: 305-667-5147
Fax: 305-663-0964
info@betalabservices.com




ISO/IEC 17025:2017-Accredited Testing Laboratory

Summary of Results - % Biobased Carbon Content ASTM D6866-22 Method B (AMS) TOC	Certificate Number: 519721630750130063 Validation: 
Submitter	Luc Fang
Company	Dongguan Boze Leather Co., Ltd
Date Received	June 17, 2022
Date Reported	June 25, 2022
Submitter Label	Vegaprene bio leather / (USDA Application 11284)
RESULT:	72 % Biobased Carbon Content (as a fraction of total organic carbon)
Laboratory Number	Beta-830750
Percent modern carbon (pMC)	72.14 +/- 0.22 pMC
Atmospheric adjustment factor (REF)	100.0 = pMC/1.000



Package received - labeling COC



View of content



13.0mg analyzed (5mm x 5mm scale)

Disclosures: All work was done at Beta Analytic in its own chemistry lab and AMS. No subcontractors were used. Beta's chemistry laboratory and AMS do not test or measure artificial C-14 used in biological and environmental AMS studies. Beta is a C14-tracer-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 report.

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The TDS of our Bio-Based Carbon Content (Vegan) PU Leather



产品说明 (Description Of Material)

cigno leather		中文	English	
产品编号	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 Resin
适用范围	鞋子, 手袋及其它产品		Main Application	Shoes, Bags and other products
环保标准	环保项目	数值	Testing Items	Results
	含铅量	<90PPM	Lead	<90PPM
	含镉量	≤75PPM	Cadmium	≤75PPM
	甲醛	≤75PPM	Formaldehyde	≤75PPM
	偶氮染料	≤30PPM	AZO Dyes	≤30PPM
	有机锡化合物	≤1PPM	Organotin compound	≤1PPM
	苯酚	<5PPM	Phenol	<5PPM
	六价铬	<3PPM	Hexavalent Chromium	<3PPM
	分散染料	不被检测到	Disperse Dyes	ND
	富马酸二甲酯	<0.1PPM	DMFU	<0.1PPM
	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	PAH	Comply with International standards
	八大重金属检测	符合国际标准	Heavy Metals:EN71-3	Comply with International standards
	美国加州65项	符合国际标准	CA Prop 65	Comply with International standards
物性标准	剥离强度 (纵向&纵向)	2.5-3.0 KG ± 0.3KG /3CM	Peeling Strength (Zonal & Meridional)	2.5-3.0 KG ± 0.3KG /3CM
	撕裂强度 (纵向&纵向)	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级	Wet Wipe Strength	4-5 grade
	干擦	4-5级	Dry Wipe Strength	4-5 grade





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 thickness 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 substitute durability 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 customer requests.





CIGNO LEATHER

Number BZ-NH0502
 specification 52"X0.610.55mm
 composition 51%Bio+49%PU

01 02

BIO VEGAN 生物基

Degradable/BIO based
 Vegan/Sustainable

03 04
05 06
07 08
09 10
11 12

CIGNO LEATHER

Number BZ-NH0503
 specification 52"X0.610.55mm
 composition 51%Bio+49%PU

01 02

BIO VEGAN 生物基

Degradable/BIO based
 Vegan/Sustainable

03 04
05 06
07 08
09 10
11 12

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



CIGNO LEATHER

Number BZ-NH0535
 specification 52"X0.63X0.05mm
 composition 45-65%BIO+34%PU

01 02 03 04 05 06 07 08 09 10 11 12 13 14

BIO VEGAN 生物基

Degradable/BIO based
 Vegan/Sustainable

01 02 03 04 05 06 07 08 09 10 11 12

CIGNO LEATHER

Number BZ-NH0536
 specification 52"X1.01X0.05mm
 composition 45-65%BIO+34%PU

01 02 03 04 05 06 07 08 09 10 11 12

BIO VEGAN 生物基

Degradable/BIO based
 Vegan/Sustainable

01 02 03 04 05 06 07 08 09 10 11 12

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-resistance, 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-resistance, tear-resistance
Usage: Shoes, bags, garments and other products



CIGNO LEATHER

Number BZ-NH0542
 specification 52"X1.020.1mm
 composition 55-66%BIO +34%PU

Degradable/BIO based
 Vegan/Sustainable

BIO VEGAN 生物基

01 02 03 04 05 06 07 08 09 10 11 12

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-resistance, tear-resistance
Usage: Shoes, bags and other products.
 More available textures for selection!

CIGNO LEATHER

Number BZ-NH0543
 specification 52"X1.020.1mm
 composition 55-66%BIO +34%PU

Degradable/BIO based
 Vegan/Sustainable

BIO VEGAN 生物基

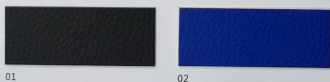
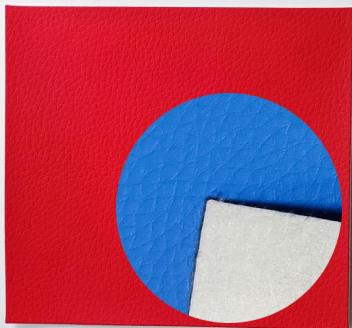
01 02 03 04 05 06 07 08 09 10 11 12

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.



CIGNO LEATHER

Number BZ-NH0540
specification 52"X1.2x0.05mm
composition 55-65%BIO +34%PU



01 02

BIO VEGAN 生物基

Degradable/BIO based
Vegan/Sustainable



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11 12



CIGNO LEATHER

Number BZ-NH0541
specification 52"X1.2x0.05mm
composition 55-66%BIO +34%PU



01 02

BIO VEGAN 生物基

Degradable/BIO based
Vegan/Sustainable



03 04
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07 08
09 10
11 12



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



Number BZ-NH0522
specification 52"~1.2x0.05mm
composition 66%BIO +34%PU

CIGNO LEATHER

Degradable/BIO based
Vegan/Sustainable

BIO VEGAN 生物基

Number BZ-NH0532
specification 52"~1.2x0.05mm
composition 66%BIO +34%PU

CIGNO LEATHER

Degradable/BIO based
Vegan/Sustainable

BIO VEGAN 生物基

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-resistance, 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-resistance, 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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