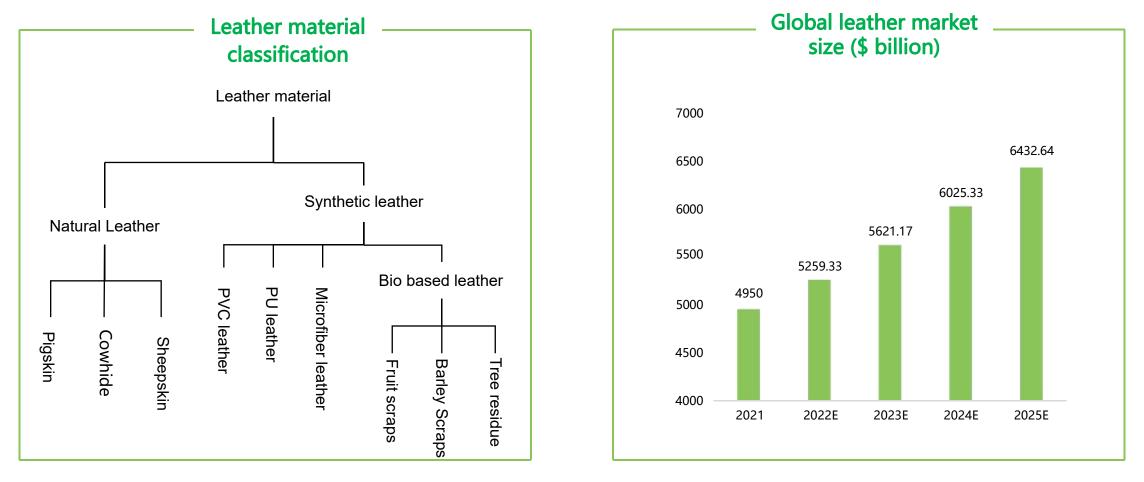


Apple scraps are a misplaced "leather"material Vegan Leather-Apple Peel

Industry Analysis As a common material in daily life, leather has a trillion dollar market space.



Source: China Research Network, Cinda Securities, QYrearch



Industry Analysis The global wave of bio-based materials has arrived as a premium alternative to traditional materials.

According to the McKinsey Global Institute, up to 60 percent of the material inputs in today's global economy could, in principle, be produced or replaced by biological means. Over the next 10 to 20 years, advances in the use of biology in materials, chemicals and energy production could generate \$200 billion to \$300 billion in growth for the global market.

Bio-based materials are good at reducing carbon <u>emissions and recycling</u>

Biobased materials are new materials and chemicals made from renewable biomass such as grains, legumes, straw, bamboo and wood flour. Compared with the production of traditional chemical materials, bio-based materials effectively reduce carbon emissions in the production process.

Specific comparison of bio-based materials to reduce carbon emissions

Evaluation parameters (kg CO2 eq.)	Nylon - 66	Nylon -56 (bio-based material)
Global Warming Potential - Fossil	8.66	7.28
Global Warming Potential - Biogenesis	3.11	2.90
Global Warming Potential - Land Use and Land Conversion	1.73	1.20
Global Warming Potential - Total	8.69	4.38

Source: China Research Network, Cinda Securities, QYrearch

Industry Analysis

Under the transformation of raw materials, bio-based leather can replace most traditional leather materials (animal leather, artificial leather)

Compared with other synthetic leather, bio-based leather is more scratch-resistant and has a softer surface. At the same time, it can be a good substitute for animal leather, reduce the feeding of cattle and sheep, etc., which has a strong positive environmental impact.



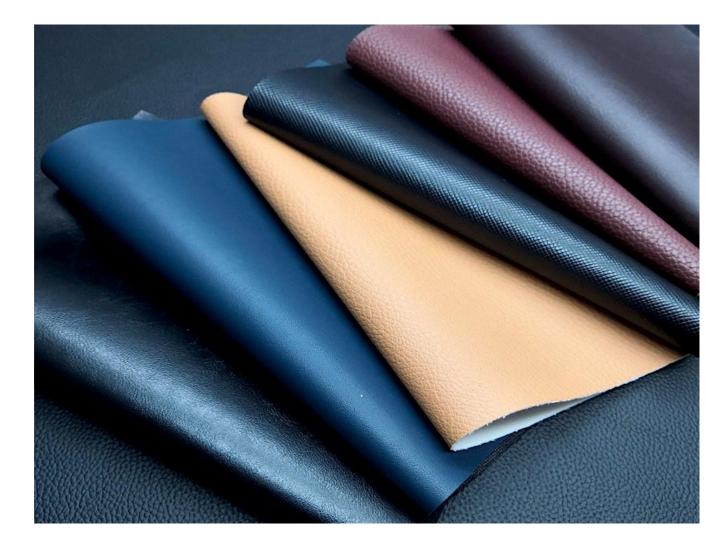
Source: Market Research 、Emergenresearch 、Grand View Research

Vegan leather is gaining more popularity than ever before

In the global fashion search platform Lyst recently released the "2021 annual fashion report" pointed out that in 2021 consumers to "vegan leather" search frequency increased by 178%. Retail researcher WGSN Instock's data shows that from the first half of 2018 to the same period this year, the online availability of vegan leather products in the UK has more than doubled, and the US has increased by 54%.

Infinitum Global analysts predict that the global demand for vegan leather will continue to grow at an annual rate of 49.9%, and will reach \$89.6 billion by 2025. And the Asian market will become the industry's dominant.

This new type of leather products are gradually become fashionable.



Source: Lyst、 Infinitum Global



Vegan Leather is a type of bio-based leather, which refers to leather products that are 100% free of animal ingredients and animal footprints in their manufacturing materials and processes, and do not undergo any animal testing.







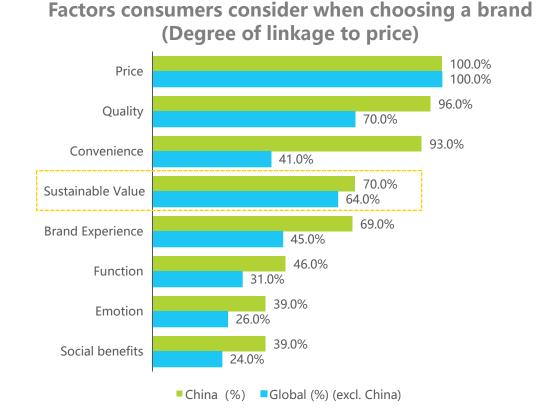
CET Flexible Customization & Fast Delivery for Brands since 2006

Sustainable trend pushes vegan leather development

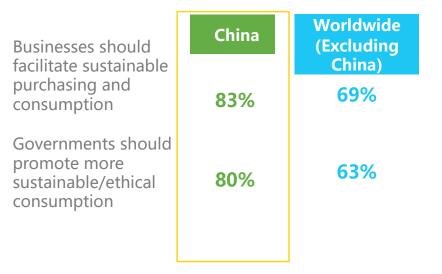
Sustainability becomes an important consideration in consumer decisions

Sustainable value is ranked fourth in consumers' consideration when choosing a brand.

As consumers become more environmentally conscious, they will gradually become resistant to artificial leather. Leather based on plant fibers (such as apple peel, pineapple, cactus, etc.) and leather grown from cells such as mycelium leather has emerged.



Consumer understanding of sustainable consumption



Source: Accenture



Biodegradable vegan leather has potential, still driven by big brands

Vegetable-based vegan leather

──★Vegan leather ★──

• Made from the leftover grape skins, stems and seeds of the winemade from

→ 「Desserto」 Vegan leather ★—

 The leather is made from organic cactus leaves, which are added to non-toxic chemical substances and biological pigments.

—─★「Apple Skin」Vegan leather ★—

• Made from apple waste

-----★ [Pi atex] Vegan leather ★-----

 Made from bonded fibers extracted from pineapple leaves

—★ [Fruitleather] Vegan leather ★—

• Vegan leather made from mango

Branding drives mycelium leather R&D

→ Mylo Mycelium leather ★ _____

For Spring/Summer 2022 Paris Fashion Week, Stella McCartney showcased its first massproduced mycelium leather bag, the Frayme Mylo.



----★ [Sylvania] Mycelium leather★-----

 Hermès commissions materials company to develop mycelium leather "Sylvania" exclusively for it



Source: Ariadne Consulting



Vegan leather made from apples

APPLE Leather alternatives are bio-based materials made using the leftover pomace and peel from the fruit juice and compote industry.

The Process: The material is created by first taking the recovered apple waste and reducing it to a powder. This biomass powder is then mixed with other natural agricultural fibres through a process where it is combined with polyurethane and coated onto a plant based material.

Generally the biobased content can vary, Generally the biobased content can vary,



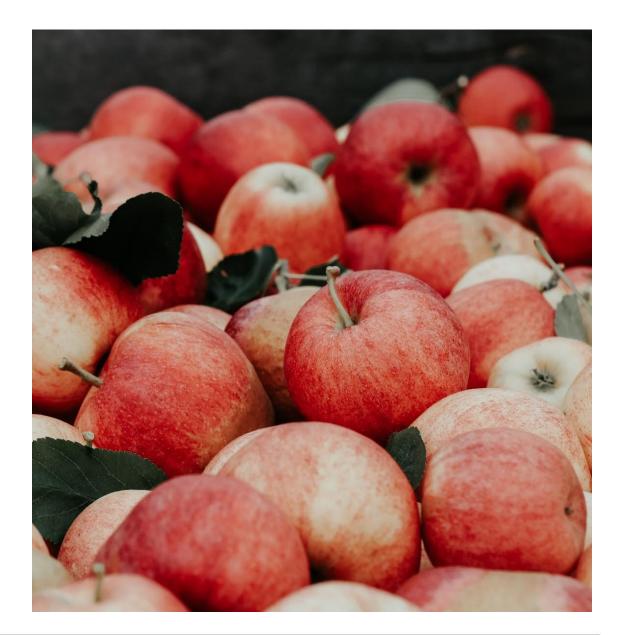
Our material is made using 66% Bioproduct, more than the industry standard.

Even though apple peel leather is mixed with PU, it's still more sustainable than pure PVC or PU leather alone.

Compared to PVC, PU leather is considered more favorable. Although, fossil fuels are required to produce polyurethane and it emits carbon dioxide during the production process, PU doesn't produce the same dioxins that PVC does.

While PU coatings aren't natural, they help increase the durability and longevity of vegan leather products, which helps decrease the amount of wasted products in the long run.

By partnering with C&T you can support the concept of a more sustainable product life cycle.





8 Steps to Recycling & Production



Recycle APPLE PEEL WASTE from juicc factory



Wash,dry and carry out nano transformation process

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Biomass conversion procedure



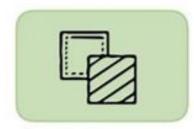
Mixed Apple Nanofiber with 100% biobased yarn



Mixed Apple Nanofiber with 100% Waterborne PU



Pigmented coloring and coagulation



Deboss customize texture on the surface



Different applications of Apple Skin Vegan Biobased Leather



Source: Ariadne Consulting

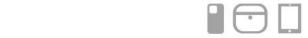
The price of the product is low, the form is similar to animal leather or artificial leather, and the quality of the product is equal to that of the big brand counterparts.



- Water-based PU is non-toxic, non-hazardous and biodegradable

 Used for joint stability, plasticity, enhance product performance, make the material form and animal leather or artificial leather

- Balance between practicality and market pursuits, future enhancement of bio-based content



Our Certifications

$\left\{\begin{array}{c} P \in TA - A P P R O V E D \\ V E G A N \end{array}\right\}$



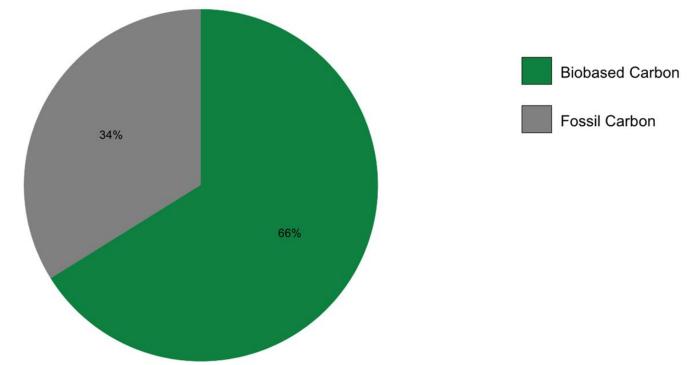
	ANNIMAS PETA	USDA unicit bilan Department of Agriculture www.agripertimet.gov
Al ARTHONOOLI JOLANAARDON PROCENTS TO PEOPERSION RANKER OF ALL 13 January 2020 To whom it may concern, PAQ Group International Ltd is certified to use the PETA-Approved Vegan logo to promote its animal-free fabrics, including VEGATEX. Sincerely, Women Taylor Director of Corporate Projects PETA LK Wonne Taylor Director of Corporate Projects PETA LK	Annual Frank	<text><text><text><text><text><text></text></text></text></text></text></text>
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Beta Testing Conclusion

RESULT: 66 % Biobased Carbon Content (as a fraction of total organic carbon)

Laboratory Number	Beta-568860
Percent modern carbon (pMC)	65.91 +/- 0.22 pMC
Atmospheric adjustment factor (REF)	100.0; = pMC/1.000



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Apple leather product recommendation

PANKI +1

0

Phone bags, card bags, phone cases made from apple leather

Feels soft and delicate, easier to maintain Almost indistinguishable from Classic Leather, it is slightly lighter and less prone to aging.

Material: Apple leather Process: sewing, crimping Model: can customize various product models





Customizable apple peels in different proportions up to 66%



























Quality leather products and environmental sustainability can go hand in hand.





Highly reproduce the effect of traditional leather, user acceptance is higher



Wide range of applications

Almost all leather applications are covered.



There is no bottleneck in the supply of waste materials, such as fruit residues, which are available in huge quantities and at low prices.



Full utilization of waste

There is no residue in the production process, so the cycle is closed.



USDA certified with 66% plant-based content.



Advanced Processes

The technology route is developed according to the domestic raw materials and production environment, and can achieve mass production quickly and at low cost.



Vegan leather passed SGS and other third party tests. Have good physical properties



R & D design advantage

With professional R&D team, we can design different kinds of products such as bags, card cases and cell phone cases.



Vegan leather passed over 200 chemical tests



Price advantage

Our price advantage is very obvious compared to the products of well-known companies of the same type.



Hey!

We are the manufacturer for smartphone & laptop accessories and professional on quick customized production solution.

If you also concern about the customized products, please don't miss our ODM service. We believe we can bring value to you.

Feel free to contact us.





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Published by: C&T Marketing Operations Center Data Collection: Siting Zhong Product planner: Anna,Zehui Wu Photographer: Bicheng Xu Designer:Yunlong Cai ,Yixin Zeng