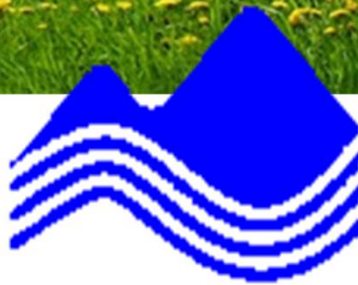


Product Catalog

2017 Hisun Industrial Co., Ltd





About Hisun Industries Ltd.

With economic development in recent years, people have realized that in order to survive our next generation, environmental protection has become imperative to reduce pollution has become everyone's business and even goals. In order to reduce pollution at the same time taking into account the profits, "technology" to be the only way to achieve this purpose.

Past, people use a lot of non-biodegradable items, either burn or bury the environment have caused irreparable harm. Over the years, "green" means renewable, recyclable and friendly to our planet; a kind of starch-based feedstock production of disposable containers, has gradually been welcomed and accepted, to replace the traditional harmful plastic products.

Hisun in environmental protection industry in this original intention, after years of research and development, in 2013 the successful development of good quality, reasonable cost and completely harmless to the Earth and humanity starch disposable containers, we are confident to provide customers with the best solution!

Product Features

1. Waterproof 、 Anti-oil
2. Temperature resistance : - 5 °C ~ 110 °C environment, microwave oven, and refrigerator.
3. Starchfoam products show high degradation in natural environment and prove to be highly environmental friendly in both safety and sanitary standards.
4. Compare with other similar product, Starchfoam product is superior in its composition, functionality, aesthetical and ecological values in comparison to its current counterparts in the market.
5. Starchfoam production process generates zero material waste, emissions, and waste water.



Technical information:

1. Our product is based on **Starch**; a biodegradable material that produces disposable cutlery, cups and other packaging. The degradation effect is significant. Natural processes, such as sun, wind, soil, rain, temperature and microorganisms, produce natural decomposition.
2. Our process to change the physical and chemical properties of starch is unique. **Our product's property index meets the criteria in both China and Europe on GB18006.1-1999: Testing Guideline on the Biodegradability and Food Safety of Containers and Bags and GB18006.2-1999: Biodegradable Test for Disposable Tableware.**
3. There are no waste gases, liquids, or solids from the production. Our process meets all sanity requirements. In addition, it creates no contamination on disposal, thus is the ideal candidate for disposable foam products.



**Eco - Friendly
Human
Harmony
Innovation
Responsibility**

Why Use “**Plastic**” Lids with Your “**Green**” Coffee Cups?



The Solution:

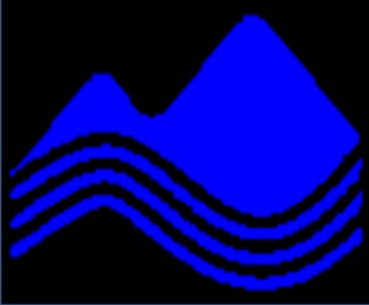


World's First Green Coffee Cup Lid

- Made from 100% renewable starch material
- No dissolution of harmful materials
- High Heat Resistance



Hisun Corp.



General Catalog – Coffee Cup Lid

Material

Starchfoam

TAPIOCA STARCH FOAMING

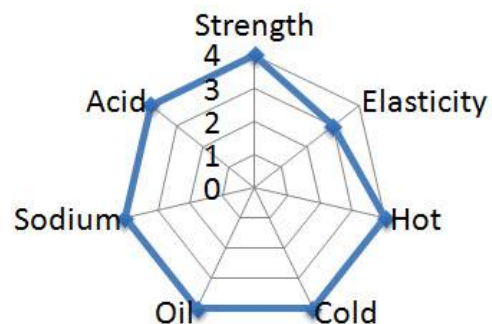
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.





HOT

110 °C

Cold

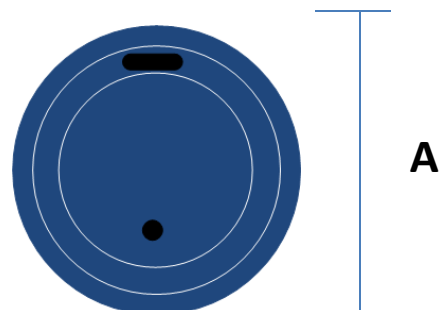
-5 °C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
C-1	A = 65mm B = 18 mm (Used with 12 oz cup)		100			



B



A

Note: Packaging method for sample orders. Volume orders are subject to change upon request.

General Catalog – Cup

Material

Starchfoam

TAPIOCA STARCH FOAMING

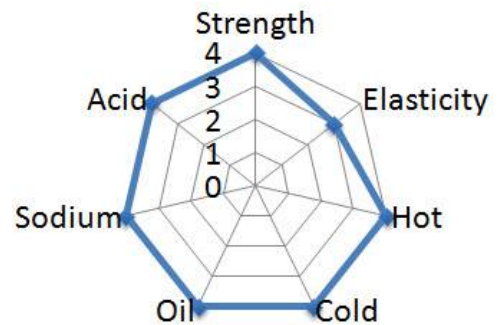
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.






HOT

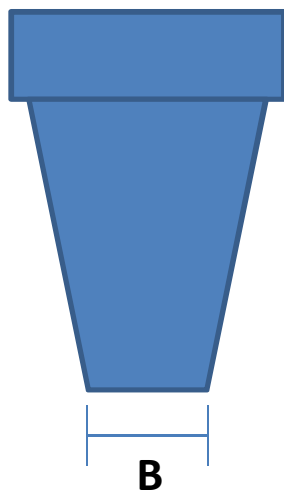
110 °C

Cold

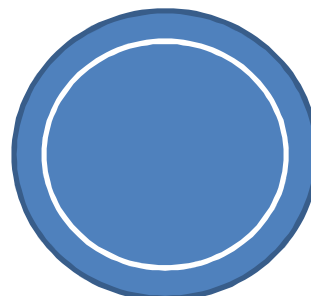
-5 °C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
C-1	12 oz A = 88 mm B = 57 mm C = 114 mm		100			



C



A

General Catalog – Plate

Material

Starchfoam

TAPIOCA STARCH FOAMING

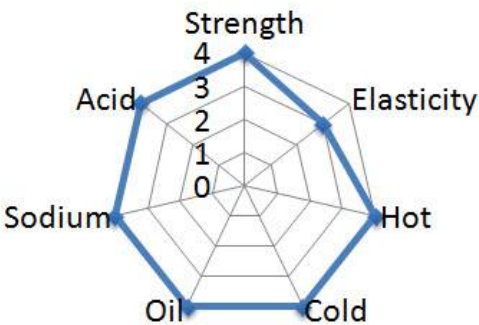
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.






HOT

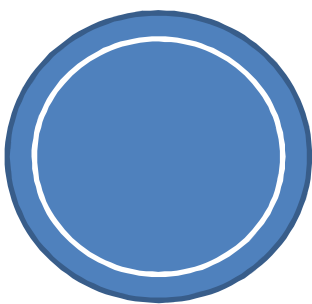
80 °C

Cold

-5°C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
P-9	A = 230 mm C = 20 mm		100			



C

General Catalog – Tray

Material

Starchfoam

TAPIOCA STARCH FOAMING

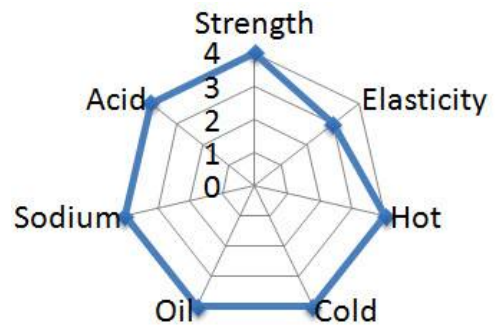
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.






HOT

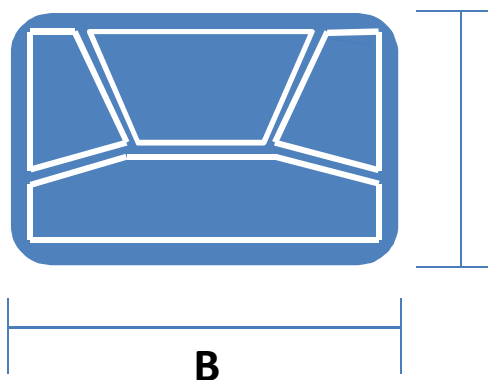
80 °C

Cold

-5°C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
T-1	A = 180 mm B = 220 mm C = 22 mm		600			



General Catalog – Lunch Box

Material

Starchfoam

TAPIOCA STARCH FOAMING

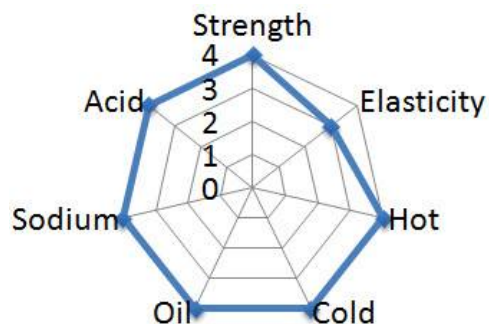
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.






HOT

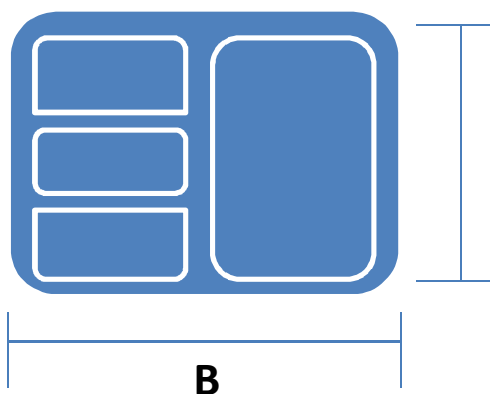
80 °C

Cold

-5 °C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
LB-1	A = 176 mm B = 227 mm C = 33 mm		100			



General Catalog – Bowl

Material

Starchfoam

TAPIOCA STARCH FOAMING

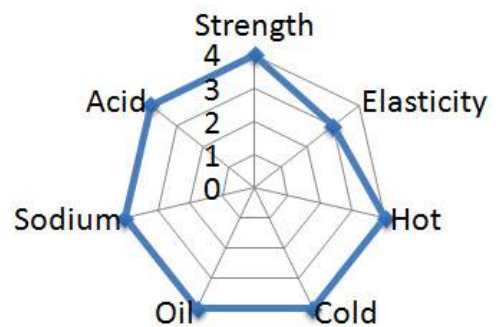
Material is extremely sturdy, cold and heat resistant, no forming shape limitations. Extremely cost-effective and flexible in its applications.






HOT

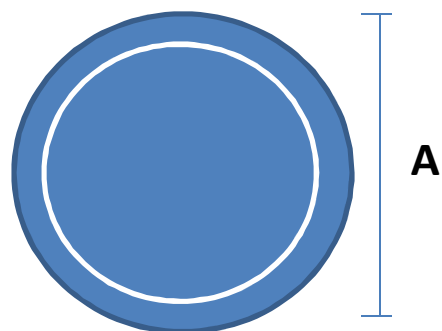
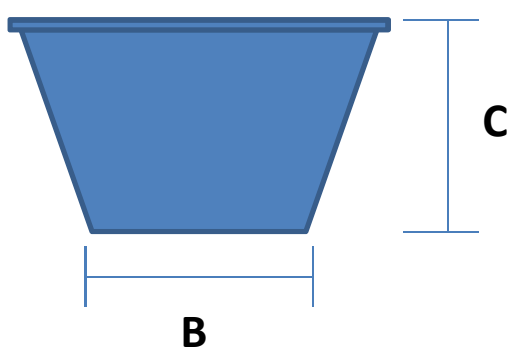
110 °C

Cold

-5 °C



Model	Size	Packaging		White	Custom	Surface Designs
		Pack	Box			
B-1	27 oz A = 140 mm B = 112 mm C = 106 mm		100			



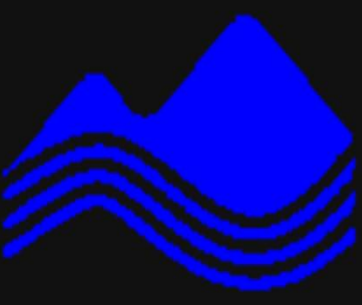
Protective Coating

Hisun uses (SL8080) as the preferred protective coating material. SL8080 is the result of years of research and development, and compliments starch formed containers perfectly. SL8080 is compostable, biodegradable, approved by the FDA, and meets the standards for FCN for 21 CFR 176.170 and 21CFR 176.180 Part J. This coating is designed for direct contact with foods and will not release any harmful substance when met with heat.

SL8080 provides excellent oil and water resistance and forms a smooth protective coating along the shape of the product. It is ideal for containers used for dry foods, dairy products, baked goods, meats, ice cream, and frozen/microwavable foods.



Hisun Corp.





SGS certificate: Tests for toxic materials

- The product was analyzed as starch under application number: 90302008061 from the Bureau of Standards, Metrology and Inspection, M.O.E.A. (Taiwan Ministry of Economic Affairs and Inspection Service)
- Taiwan EPA notification 0920087719 has determined that the product does not belong to the Waste Disposal Act.
- According to the Department of Health inspection of food containers, the Institute for SGS (testing Application Number: CY/2014/50131~2) has certified that the Material test and Migration test results are as follows:

Test items	Test methods	Test results	Limit in CNS regulations
As203 (H ₂ O)	CNS 12221	< 0.1 ppm	< 0.1 ppm
Methanol (H ₂ O)	CNS 12221	negative	negative
evaporate residue (H ₂ O)	CNS 12221	7 ppm	< 30 ppm
As203 (acetic acid)	CNS 12221	< 0.1 ppm	< 0.1 ppm
heavy metal Pb (acetic acid)	CNS 12221	< 1.0 ppm	< 1.0 ppm
evaporate residue (acetic acid)	CNS 12221	4.6 ppm	< 30 ppm
evaporate residue (n-heptane)	CNS 12221	5.0 ppm	< 30 ppm



OUR COMMITMENT

- ✓ *Producing quality products for everyday life*
- ✓ *To only use sustainable raw materials*
- ✓ *To use locally produced raw materials*
- ✓ *To use energy wisely*
- ✓ *To provide a quality work environment*

If you have any questions or suggestions, please share with us, thanks!

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