

Biodegradation Under All Conditions

Born from nature, returning to nature's embrace.



Why Choose PHA Straws?

Biodegradable Earth-Friendly

Unlike traditional plastic straws, PHA (Polyhydroxyalkanoates) straws are fully biodegradable in natural environments. No more concerns about long-term accumulation—they break down into harmless substances within months to years, significantly reducing soil and water pollution.

Safe and Healthy

Our PHA straws are free from harmful chemicals such as BPA (Bisphenol A) and phthalates, ensuring that every sip remains pure and safe. With PHA, you and your family can enjoy your drinks without worrying about health risks.

Sustainable Development Resource Efficiency

Made from biobased materials produced through microbial fermentation, PHA straws reduce reliance on fossil fuels. By using biological materials, they not only lessen the demand for petroleum but also cut down greenhouse gas emissions, contributing to a more sustainable future.

Durable and Reliable

While being biodegradable, PHA straws offer exceptional durability during use. Strong and resilient, they can withstand various liquids' pressure and temperature, adding convenience and comfort to your drinking experience.



CLEAN PRODUCTION LINE UNDER GMP STANDARD SYSTEM



Fermentation

Involves selecting appropriate microorganisms, preparing a suitable growth medium, and culturing the microorganisms under controlled conditions to maximize PHA production.

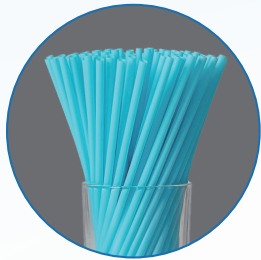
Extraction and Purification

Includes harvesting the cells, disrupting them to release PHA, extracting the PHA using solvents, purifying the extracted PHA, and drying it to obtain a pure product.



PHA can be degraded by Marine degradation industrial composting, household composting.

PHA STRAW	
PRODUCT NAME	PHA Biodegradable Straw
RAW MATERIAL	Polyhydroxyalkanoates(PHA)
COLOR	The original color is white, can be specialized into various colors according to the demand
CUSTOMIZABLE	Straight straw,flexible straw,spoon straw and dignogal-cutting straw can be customized
SHELF LIFE	18 Months
TEMPERATURE RESISTANCE	-10°C - 90°C
STORAGE	Store in a cool and dry place, avoid direct sunshine, Please use the products as soon as possible after opening
DEGRADATION CHARACTERISTICS	Freshwater / Ocean / Landfills / Soil / Home Compostable / Industrial Compostable / Anaerobic Digestion



MARINE DEGRADE
HOME COMPOSTABLE

-10°C - 90°C

18 months



DEGRADABLE
CONDITION

TEMPERATURE
TOLERANCE

SHELF LIFE

INDUSTRIAL
COMPOSTING

0°C - 45°C

12 months

How did PHA straws break down?



DAY 01

Initial Contact



DAY 20

Biodegradation
Initiation



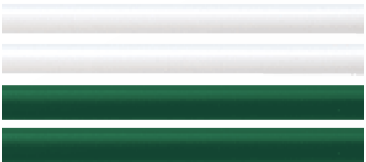
DAY 40

Molecular
Chain Breakage



DAY 60

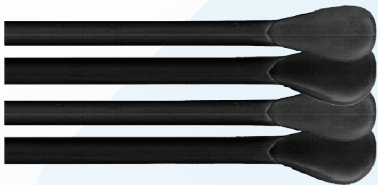
Formation of
Metabolic Products



STRAIGHT



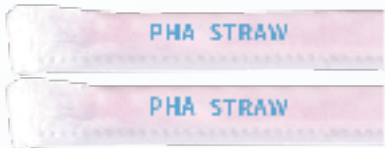
FLEXIBLE



SPOON SHAPE



DIAGONAL CUTTING



WRAPPED



PRINTING LOGO



Straight Straw

Qty: 100 Pcs X 100 Bags
Size: Ø60 X 200 mm
Meas: 540 X 440 X 420 mm



Flexible Straw

Qty: 100 Pcs X 100 Bags
Size: Ø6 X 200 mm
Meas: 540 X 440 X 420 mm



Spoon Straw

Qty: 50 Pcs X 100 Bags
Size: Ø6 X 200 mm
Meas: 390 X 330 X 420 mm



Individually
Paper Wrapped

Qty: 100 Pcs X 50 Bags
Size: Ø6 X 200 mm
Meas: 430 X 280 X 480 mm



Innovation in manufacturing
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