

Introduction

Our straws are formed from a compact formula refined from abandoned ground seashells and chitin. Using high temperatures and dehydration techniques, chitin creates Chitosan.

This material contains natural microscopic organisms and non-toxic, allowing for our straws to have special absorbability, biodegradability and biological compatibility characteristics. By featuring a nanograde biodegradable plastic additive, our biodegradable straws are 100% degradable and non-toxic, which will emit low carbon and pollution during its deconstruction.

After degradation our straws can become organic fertilizer to balance the PH levels in soil, this will not damage crops or strain the environment making them environmental and recyclable.

BioDegradable

PE decomposition report 80.6% degradation rate after 127 days burying.

91% radiation of far infrared.

Will decompose between 3-6 months after being removed from its packaging

Product will begin to decompose after 2 years, when product is unopened.

Becomes organic fertilizer after decomposition

Food grade accreditation

Material contains no lead, mercury, cadmium or plasticizer and has no reaction to 8 heavy metals. The material has passed food grade packaging inspection and is non-toxic accredited.

Able to withstand temperatures -200 140C and won't discharge toxin.

Under SGS testing, no toxin, no plasticizer or none of 8 heavy metals detected after 2 hours of reflux in 100c olive oil.

Food contact substance accredited

Table of Physical properties

Physical Properties	Test methods	Unit	Data
Melt for index c	According to code of federal regulations (CFR) Title 21. Pt 177 1520		165.34
Density	ASTM D638	g/cm ³	1.6
Tensile strength	MPa	≤ 11	32.3/23.8
Elongation	%	≤ 100	356/ 490
Impact testing	%	≤ 100	356/ 490
Tearing strength	ASTM D624	Kgf/cm ²	88.4
Softening temperatures	ASTM D1525	C	106
Hardness	CNS 12628	Type D/1 Sec	58
Moisture absorption	IR	%	0.08
glossiness	60C		80

Certificates of material

161 items of chemical inspected by ECHA under REACH (A pass to European market)

SGS- EU food grade inspection

SGS -8 heavy metals

Non- toxic accredited by EU environment agency (no harm and free of Hg, Pb, Ge and toxin)

Food contact substance accredited by FDA (allowed to be used on food packaging)

Industrial Technology Research Institute- Non toxin after burning

Energy of far infrared:

(1) for fresh- keeping and enhancing food flavour

(2) for manufacturing agricultural film to promote plant growth and boost productivity

(3) for manufacturing articles for daily use, such as mattress, pillow and insoles, to promote blood circulation, good for mental and physical health.

Available Products

Colour	Description	Diameter	Quantity
Black	5inch Straight Sip	3mm	12 x 1000
Black, White	5.5inch Memphis straight	4.3mm	20 x 1000
Black, White	5.5inch Bendy	6mm	40 x 250
Black, White, Green	8inch Bendy	5mm, 6mm	40 x 250
Black, White	8inch straight	6mm	20 x 500
White	8inch Spoon	8mm	20 x 200
White	9inch Smoothie	9mm	40 x 200
White	10.5inch white straight	6mm	40 x 250