greenlid™/MC

North American Partner for Sustainable
Products Retail Food Service Private Label

10,000+ Retail Stores with Greenlid Collection by
end of 2021 Leading Non-Plastic Food Service Supplier

WE PROVIDE SOLUTIONS AND EXPERTISE FOR ALL YOUR SUSTAINABILITY CHALLENGES

WE HAVE A LOT OF WAYS TO MAKE A DIFFERENCE

With a diverse portfolio of companies committed to sustainability, our products add value and continue to develop the growing circular economy in Canada while achieving reductions in waste, carbon, & energy use.

ICE RIVER
SUSTAINABLE SOLUTIONS

ICE RIVER

MANUFACTURING OF PRIVATE LABEL, BRANDED AND CO-MANUFACTURED BOTTLED WATER

BMP Recycling

EFFICIENTLY CAPTURING RECYCLABLE MATERIAL AND TRANSFORMING THEM INTO NEW rPET BOTTLES AND OTHER PLASTICS IN A CONTINUOUS CLOSED LOOP

BMP Extrusion

BRAND NEW, STATE OF THE ART, PLASTIC EXTRUSION AND FILM PRINTING FACILITY

BMP Packaging

PRODUCE 100% RECYCLED SHEET GRADE PET PLASTIC (rPET)

C.R. PLASTIC PRODUCTS
we create sustainable outdoor living

CREATING BEAUTIFUL, ECO-FRIENDLY OUTDOOR FURNITURE WITH RECYCLED PLASTIC CAPS PROCESSED AT BMP RECYCLING

OSPREY ORGANICS

GROWING HIGH QUALITY, ORGANIC GRAINS AND MAPLE SYRUP ON OVER 3,500 ACRES OF FARMLAND

greenlid

REVOLUTIONARY LINE OF FULLY COMPOSTABLE PRODUCTS

https://youtu.be/xM78-rHXU5U

YOUR NORTH AMERICAN PARTNER FOR SUSTAINABLE, COMPOSTABLE PRODUCTS

FOUNDER/CEO MORGAN WYATT, PhD

- We partner with major North American companies to provide a turnkey selection of sustainable, compostable products either branded or Private Label
- We take the guesswork out of compostable regulations across North America – offering one solution for all municipalities
- **Driven by science and thinking to the future** (Innovation & Regulatory) Greenlid Founder/CEO Morgan Wyatt, PhD in Natural Products Chemistry
- We can advise on current products, life cycles, and best practices, regional differences, and other industry items
- We focus on non-bioplastics due to their poor practical compostability and their inability to meet the needs of most municipalities using only the most sustainable, compostable natural materials to meet the highest standards of compostability
- Focus is on materials that are all natural and waste products

WE ARE NOT A STOP-GAP APPROACH TO COMPOSTABLE, SUSTAINABLE PRODUCTS

OUR THREE CHANNELS

RETAIL

Greenlid Brand & Private Label

We supply over 10,000 stores in Private Label

CUSTOM SOLUTIONS

Custom shapes & designs

Low cost mold development

Custom logos

FOODSERVICE SOLUTIONS

We care about what goes into our products and we care that they are truly compostable, not just certified compostable. We work with the actual facilities to ensure municipalities accept them.

Retailer Issues and Needs for a Single Tableware Line

Two Major Issues:

1. Polystyrene and plastic bans

- Maryland, Vermont, Maine, Washington (Feb, 2020), more states and regions to come
- New York State on deck (2022)
- 200+ Municipalities already have including: NYC, LA, San Francisco, Minneapolis, (Miami)
- Canada will ban many single-use plastics in food service by end of 2021 *****This includes bioplastics*****

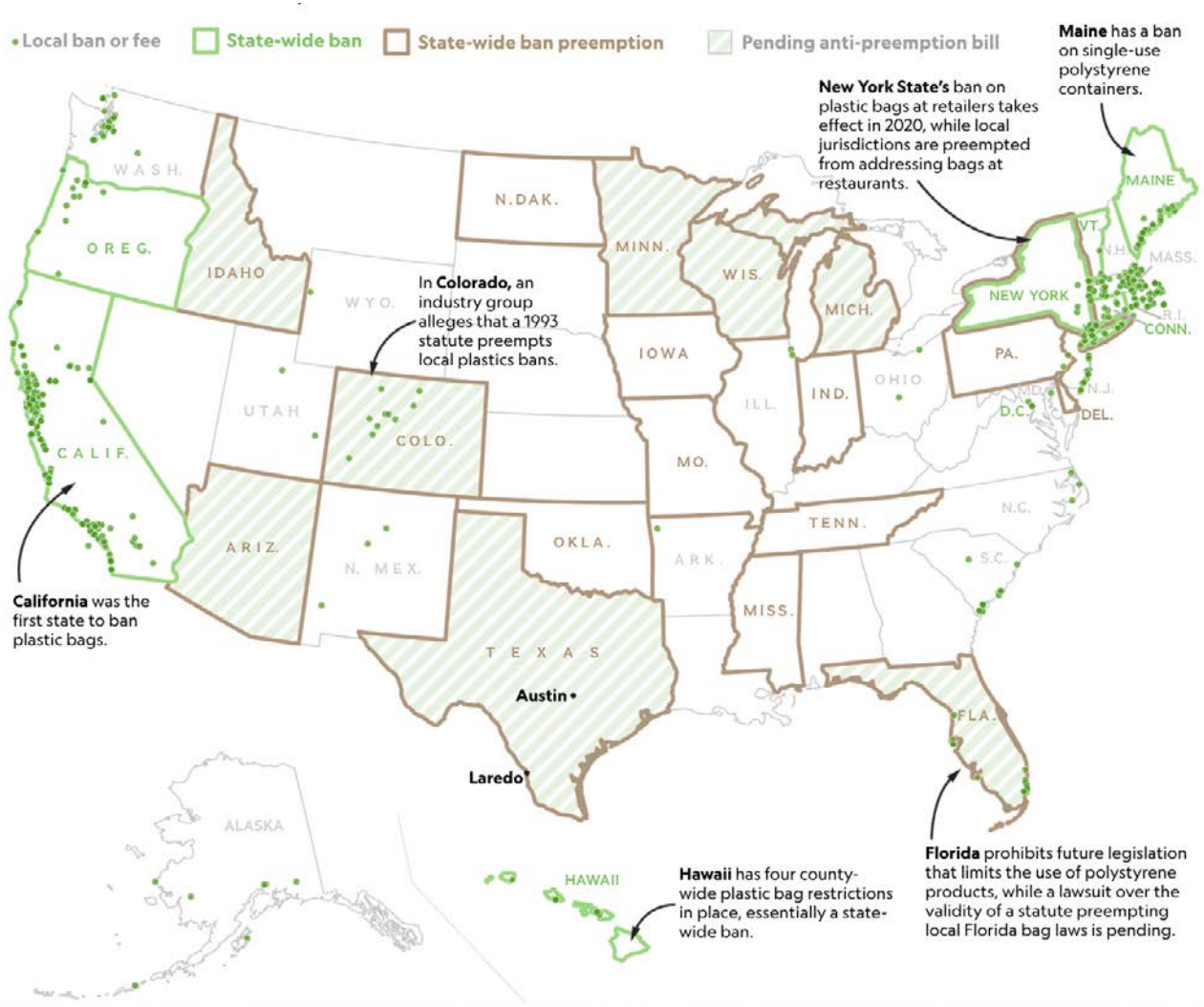
2. Variability in compostable standards across North America

- Vary from municipality to municipality
- Initial solutions were bioplastics
    - Now banned in most municipalities – Almost all other than bags.
    - Do not compost at home, and usually sent to landfill (can't tell the difference)
    - Move to Fiber-based or Wood Based only
- PFAs (polyfluoryl alkyl) found in most fiber tableware is now linked to cancer and being restricted
    - PFAs are to molded fiber as BPA was to plastic

Sustainable Organization Needs:

- Single Sustainable Source that meets most/all of the most stringent compostability standards and is outside of any future plastic bans.
- We take the guess work out of sustainable, compostable products

State of Styrofoam & Polystyrene Bans Across the US



- Polystyrene and other plastic bans and restrictions are increasing
- Mostly affecting Food Service, but will continue into tableware over the next 2-5 years
- Fiber based options will pre-empt any ban over the long term

https://www.nationalgeographic.com/environment/2019/08/map-shows-the-complicated-landscape-of-plastic-bans/

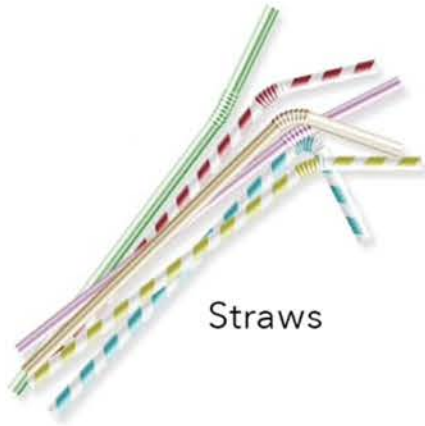
we make

100% sustainable compostable products

without harming the environment

BANNED SINGLE-USE PLASTICS

Plastic grocery check-out bags



Straws

Stir sticks

Six pack rings

Plastic cutlery

Takeout containers made from hard to recycle plastics*

* This will likely include Bioplastics/Compostable Plastics

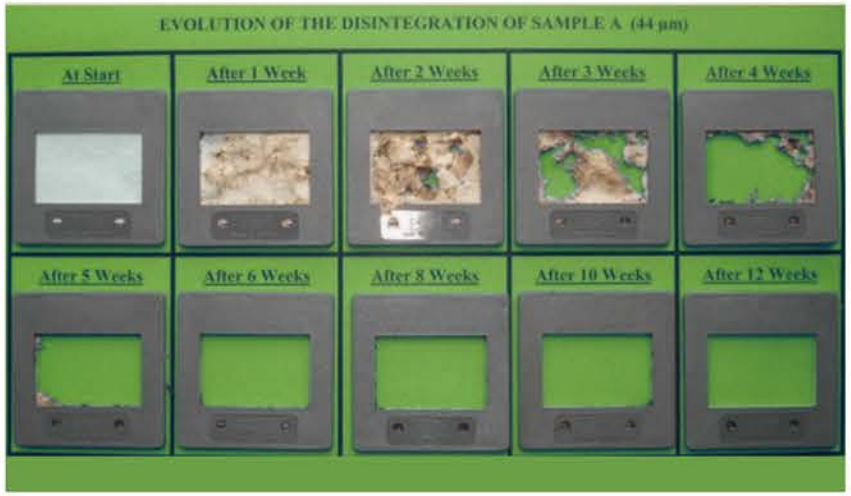
FOUR FEATURES OF COMPOSTABLE PRODUCTS & PACKAGING

COMPOSTABLE	BIODEGRADABLE
Breaks down at a rate similar to organic matter	Breaks down into smaller pieces
Leaves little or no visible or toxic residue	May leave toxins or residue
Breaks down within 180 days (if certified)	Occurs over an unspecified amount of time; may take decades

1 **BIODEGRADABILITY** (Compostable), that is the metabolic conversion of the packaging material into carbon dioxide (absence of chemical pollution) aka contaminants

EG: BIOPLASTIC BAGS CLOGGING GRINDERS

3 Absence of negative effects on the process of composting.

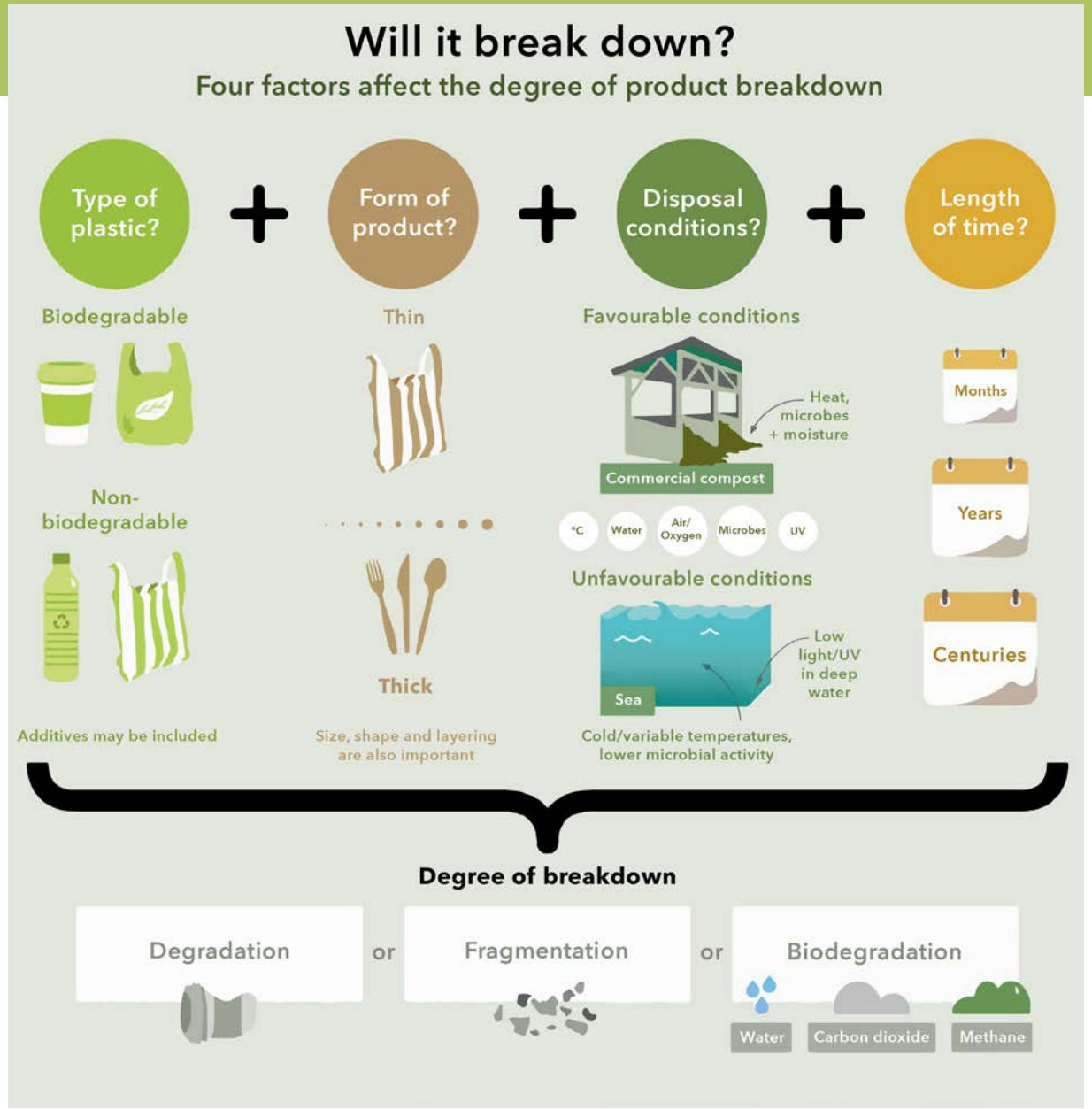


2 **DISINTEGRABILITY,** that is fragmentation and loss of visibility in the final compost (absence of visual pollution).

4 **Absence of negative effects on the final compost** (i.e. reduction of the agronomic value and presence of ecotoxicological effects on the plant growth).

BIOPLASTICS

WHY THEY ARE NOT A GOOD OPTION



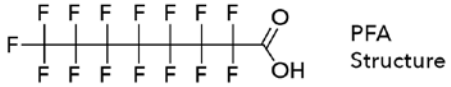
https://theconversation.com/why-compostable-plastics-may-be-no-better-for-the-environment-100016

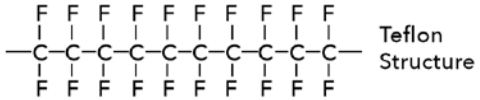
MAJOR ISSUES:

1. Almost all bioplastic products need a compost facility to process
    - Most cities do not have curbside collection
2. Bioplastics that are thick or not processed properly behave similarly to regular plastic
    - Designed to compost in 90 days, most facilities only are 45 days
    - Most compost facilities as a result do not allow it
3. Visually no difference between regular plastic & bioplastic
    - End up removed from compost stream, contaminate recycling stream
    - Only really suitable for use in closed systems. E.g. Arenas, Conference centres etc.

INSIGHT INTO PFAS/PFAOS: WHAT ARE THEY? WHY ARE THEY USED? WHY WILL THEY BE BANNED?

- PFAs are chemicals that are added to fiber products to provide grease & water resistance and are in the same family as Teflon
- Some are linked to cancer
- They are considered 'forever chemicals' and accumulate in the environment
- Majority of molded fiber carry them at high levels
- Now being restricted by BPI (US-based Compostability Standard)
- Must have less than <100ppm fluorine as of Dec. 31, 2019





Amazon facing class action alleging PFAS in disposable plates, will be banning toxic chemicals from food packaging.

Supposedly compostable bowls at Chipotle and Sweetgreen contain cancer-linked "forever chemicals."

PFAS to molded fiber will be how BPA is to plastic.

McDonald's to remove toxic PFAS chemicals from food packaging by 2025.

PFAS (POLYFLUORYL ALKYLS) IN THE NEWS

https://www.ewg.org/release/amazon-ban-forever-chemicals-its-amazon-kitchen-brand
https://www.forbes.com/sites/lanabandoim/2021/01/14/amazon-bans-toxic-chemicals-from-its-food-packaging/?sh=79bd2e2c2d31

https://news.bloomberglaw.com/environment-and-energy/amazon-facing-class-action-alleging-pfas-in-disposable-plates

https://www.foodservicefootprint.com/dangerous-forever-chemicals-found-in-high-street-food-packaging/

https://bc.ctvnews.ca/takeout-containers-may-expose-consumers-to-toxic-chemicals-research-1.4766944

https://www.ctvnews.ca/health/mcdonald-s-to-remove-toxic-pfas-chemicals-from-food-packaging-by-2025-1.5268350

PFAS FOUND IN OUR BLOOD

https://www.cbc.ca/radio/quirks/oct-10-a-nobel-for-crispr-awakening-with-a-sleeping-pill-and-more-1.5756026/a-new-class-of-forever-chemicals-is-an-emerging-threat-to-our-health-and-environment-1.5756031

ENVIRONMENT MINISTER – NOVEMBER 2020

https://www.cbc.ca/radio/quirks/nov-7-fast-radio-bursts-in-our-galaxy-monkeys-with-a-puberty-switch-and-more-1.5789388/forever-chemicals-can-have-far-reaching-consequences-need-more-regulation-in-canada-scientists-say-1.5789395

COMPOSTABILLITY STANDARDS CREATED MAINLY FOR BIOPLASTICS

(Facilities vary and were not consulted or part of standards for the most part)

STANDARD OBSERVED	TESTING STANDARD	CERTIFICATION BODY (Reviews Testing)	COMPOST FACILITY
ASTM 6400 - Standard and Labelling for Plastics that are Compostable • Made for bioplastics/polymers ASTM 6868 - Standard and Labelling for Plastics coating Paper • Designed to be used for additives that are combined with paper or other material	INDUSTRIAL COMPOSTING ONLY • Heavy metals standards • Ecotoxicity Tests • Presence of fluorine disintegration test • 90 Day Laboratory Setting	BPI COMPOSTABLE IN INDUSTRIAL FACILITIES Check locally, as these do not exist in many communities. Not suitable for backyard composting. CERT # SAMPLE	NOT ALWAYS RECOGNIZED • Lost Credibility with bioplastics • Many types of Facilities • Most process faster than 90 days • Windrows, Anaerobic, etc. • Usually require additional testing as not consulted
No National Standard (exception QC) • Utilize ASTM 6400 & 6868 BNQ (Quebec) Created standard based on ISO 17088:Specifications for Compostable Plastics to Standard CAN/BNQ 0017-088 * Similar to US based plastic test	INDUSTRIAL COMPOSTING - BNQ* • Heavy metals standards • Ecotoxicity Tests • Presence of fluorine Disintegration Test • (90 Day Laboratory Setting) • Considers negative effects on the composting process and facility • negative effects on the quality of the resulting compost.	NONE FOR CANADA BNQ COMPOSTABLE www.compostable.info	SIMILAR ISSUES AS ABOVE
Combine BNQ & ASTM • Internal Review (of all ingredients to all current toxins including PFAs • Employ Additional 3rd Party Testing • Consult with facilities • Aim to reduce use of bioplastics	HOME & INDUSTRIAL COMPOSTABILITY All of the above Plus: • Consult with facilities across North America (CMA – Compost manufactures Alliance) • Review by facility managers • Additional Real compostability studies in facilities (CMA) • No PFAs (Cancer Chemicals)	GREENLID PFA FREE COMPOSTABLE	• Work with Facilities so provides assurance for compostability • Confidence due to allowance for change in standard if new data (PFAs – Cancer) • Results in trust & true compostability

OPPORTUNITY FOR SINGLE SUSTAINABLE LINE FOR ALL OF NORTH AMERICA

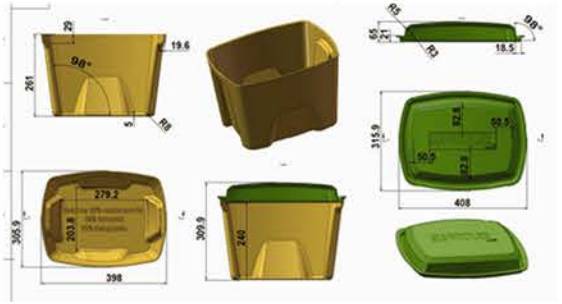
Greenlid Sustainable Product's Highlights:

- We are a plastic free solution and do not use bioplastics with a single exception*
- We focus on the latest compostability standards and look to where the future will be
  - Not a stop-gap approach
- All of our Plant Fiber Tableware is PFA-Free
  - Forever Chemical linked to cancer found in almost all compostable fiber tableware
  - New BPI standard says <100ppm fluorine allowed, we do better
- Offer the first retail ready birch cutlery line (home compostable, accepted everywhere)
  - Displaced plastic cutlery can contribute to sustainability goals
  - Opportunity for meeting sustainability goals/PR
- Wheat Straws – The better alternative than paper
- All of our product lines are compostable

FLUORINE-FREE PLANT FIBER TABLEWARE & CUSTOM SOLUTIONS

- **MATERIAL:** Bamboo Fiber, Wood Fiber & Starch (No PFA)
- **CLAIMS:**
  - PFA-free (no fluorinated chemicals)
  - compostable
  - oven-safe
  - microwave safe
  - leak-proof
  - freezer safe
  - grease resistant

- Competition uses fluorinated chemicals derived from Teflon
- 99% of competitors use these “forever chemicals” that accumulate in the environment and are linked to cancer
- Greenlid uses long fiber technology to make oil-resistant and leak proof without the chemical structure



CUSTOM SOLUTIONS AVAILABLE

COMPOSTABLE TABLEWARE, TRAYS, AND CONTAINERS

	PAPER	BIOPLASTIC (CORNSTARCH BASED)	MOST MOLDED FIBER (INCLUDES PAPER, BAGASSE AND OTHERS)	GREENLID PFA-FREE MOLDED FIBER
				
Material	• Made from paper (trees) stock • Often clay-coated • Pressed from paper sheets	• Made from bioplastics e.g. PLA • Sometimes say 'made from corn starch' • Similar to regular plastic	• Made from slurries of fiber • Can be paper (wood), bagasse (sugar cane), bamboo • Usually contain PFAs (cancer chemicals that grease-proof)	• Made from long bamboo fibers, wood fiber & starch • Bio-based water-proof additive • No PFAS
Main Features	• Often thin & flimsy • Made from trees • Can be printed • Compostable • Recyclable	• Often thin and flimsy (variable) • Not compostable • Leak proof • No visual difference to plastic • Premium price for same result as plastic (for marketing only)	• Compostable • Recyclable if unsoiled • Leak proof • Oil resistant (contain PFAS)	• Compostable • Leak proof • No PFAS • Stiffer (20-30% heavier than others • Oven safe (350F 15 min) • Microwave safe • Bamboo more sustainable

BIRCH CUTLERY

- Home compostable and accepted in every facility
- Individually wrapped in cardboard dispenser: knife, fork, spoon and unbleached napkin
- Material: 100% Birch – FSC Certified from sustainably managed forests

FSC
www.fsc.org
100%
Wood from well-managed forests
FSC® C159214

Custom branding available on cutlery

Retail-ready products available

Individually wrapped knife, fork and spoon also sold separately

Sharp Fork Prongs

Deeper Spoon

Sharpened Knife Blade

RECYCLABLE DISPENSER

CUTLERY

	PLASTIC	BIOPLASTIC	GENERIC BIRCH	GREENLID BIRCH
				
Material	• Made from variety of petroleum plastics • Usually non-recyclable	• Made from bioplastics e.g. PLA • Sometimes say 'made from corn starch' • Similar to regular plastic	• Made from 100% birchwood • Home & industrial compostable	• Made from 100% birchwood • Home & industrial compostable • Always FSC certified *sustainably managed forests
Main Features	• Often thin & flimsy for cost • Made from mainly virgin plastic • Not recycled • Not compostable • Last for up to 500 years for 5 minutes of use	• Often thin and flimsy (variable) • Not home compostable • Most facilities will not accept • No visual difference to plastic so separated before even composting • Premium price for same result as plastic (for marketing only)	• Thinner birch • Not always from FSC managed forests • Usually dull knives, forks and shallow spoons	• Higher average thickness • Sharpened knife blade • Sharpened fork prongs • Deeper spoon

WHEAT DRINKING STRAWS

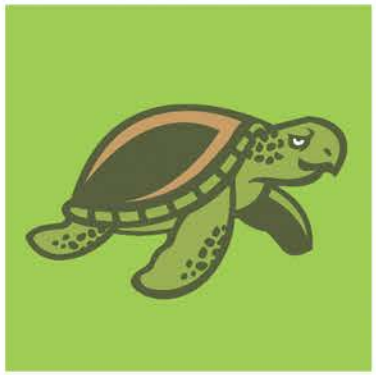
- MATERIAL - 100% Wheat Straw
- 4-6 mm
- CLAIMS:
  - non-soggy
  - gluten free
  - no taste
- The reason a straw is called a straw

AVAILABLE IN

Cocktail (5”)

Regular (8”)

Individually Wrapped



Turtle-safe, unlike plastic straws

Grown, not manufactured

Paper straws suck!

DRINKING STRAWS

	PLASTIC	BIOPLASTIC	PAPER	GREENLID WHEAT
				
Material	• Made a from variety of petroleum plastics • Usually non-recyclable	• Made from bioplastics (e.g. PLA) • Sometimes say 'made from corn starch' or other marketing material (e.g. agave) • Similar to regular plastic	• Made from Paper (trees) • Often non-biodegradable glues as binders of layers to hold together	• Made from 100% wheat stalk • Gluten-free (not made from the grain)
Main Features	• Made from mainly virgin plastic • Not recycled • Not Compostable • Last for up to 500 Years for 5 minutes of use • Can be multiple colours, lengths and diameters	• Not compostable • Most facilities will not accept • No visual difference to plastic • Premium price for Marketing only • Will last for years in ocean or environment • Can be multiple, colours lengths and diameters	• Called 'compostable' • Not truly compostable (glue layers) • Becomes soggy fast • Has flavour • Can be multiple, colours lengths and diameters	• Non-soggy • Grown, not manufactured • Gluten-free • No flavour • 100% compostable (home and industrial – just straw) • Multiple lengths (no large diameter yet)

BAMBOO COMPOSTABLE DISPOSABLE CUPS & PLANT FIBER LID

CUPS

- **MATERIAL:** bamboo fiber + thin layer PLA
- **CLAIMS:** • compostable
  (approved by facilities not just 'certified')
  • microwave safe
  • leak proof
  • oven safe
  • freezer safe
  • oil resistant
- Use bamboo fiber rather than paper
- More sustainable
- Bamboo can grow in 3-5 years
- Unbleached
- Multiple sizes and shapes available

LIDS

Patented Negative Angle Buckle Technology

Seal technology creates unique patented indent to seal lid to cup

Lid Actually Grips Cup like plastic lids

Lids can be customized to include your coffee grounds.

- Compostable and disposable molded fiber lids
- The answer to plastic waste coffee cup lids
- Holes for straws & dome lids
- White & unbleached (colors extra)
- PFAs-Free (no cancer chemicals)

COFFEE CUP LIDS

	PLASTIC	BIOPLASTIC	MOST MOLDED FIBER (INCLUDES PAPER, BAGASSE AND OTHERS)	GREENLID PFA-FREE MOLDED FIBER
				
Material	• Made from Polystyrene	• Made from bioplastics e.g. PLA • Sometimes say 'made from corn starch' or other marketing material e.g. agave • Similar to regular plastic	• Made from slurries of fiber • Can be paper (wood), bagasse (sugar cane), bamboo • Usually contain PFAS (cancer chemicals that give grease-proofness	• Bamboo, sugar cane • Proprietary 'Lid Seal Technology'
Main Features	• Made from mainly virgin plastic • Not recycled (usually dark, too – hard to recycle) • Not Compostable • Last for up to 500 Years for 5 minutes of use • Can be multiple colours, and sizes	• Not compostable • Most facilities will not accept • No visual difference to plastic • Premium price for marketing only • Will last for years in ocean or environment • Can be multiple colours, and sizes	• Do not seal well due to negative draft angles needed • May pop off top of coffee cup • Not as smooth as finish • Compostable • Leak proof & oil resistant (CONTAINS PFAS) • Can be multiple colours, and sizes	• Proprietary 'Lid Seal Technology' • Compostable • Leak Proof • No PFAs (no cancer chemicals) • Smooth finish • Can be embossed with logo • Can be bleached, white or colours (added cost)

COFFEE CUPS

	STANDARD (PAPER + PE LINED)	COMPOSTABLE (PAPER +PLA LINED)	COMPOSTABLE BAMBOO (BAMBOO + THIN FILM PLA)
			
Material	• Paper • PE (polyethylene) liner	• Made with paper from trees • PLA liner (compostable plastic)	• Made from bamboo not paper (trees) • Thin PLA Film 10.3% only
Main Features	• Not recyclable • Not compostable • Contains plastic • Holds hot & cold beverages • Can be printed • Many sizes and shapes	• Not Recyclable • Some compost facilities will accept • No visual difference to paper • Holds hot & cold beverages • Can be printed • Many sizes and shapes	• Accepted in compost facilities • Bamboo fiber more sustainable than paper • Visual unbleached difference in appearance • Holds Hot & Cold Beverages • Can be printed • Many sizes and shapes

100% POST-CONSUMER RECYCLED PAPER NAPKINS

COCKTAIL NAPKINS

- 100% Post-Consumer Recycled Paper Napkin
- Unbleached
- Packaged in Paper
- Unfolded Size - 23x23cm
- 1/4 Fold,
- Folded Size-11.5x11.5xcm
- Biodegradable & Compostable

DINNER NAPKINS

- 100% Post-Consumer Recycled Paper Napkin
- Unbleached
- Packaged in Paper
- Unfolded Size - 36x42cm
- 1/8 Fold,
- Folded Size-18x10.5xcm
- Biodegradable & Compostable

12 PERSON COMPOSTABLE PARTY PACK

PARTY PACK CONTAINS

12 - 9" PLATES – MADE FROM PLANT FIBER

12 – 12 OZ BOWLS – PLANT FIBER

12 - FORKS, KNIVES, SPOONS – MADE FROM SUSTAINABLY SOURCED BIRCH WOOD

12 – NAPKINS – 100% RECYCLED CONTENT

24 - REAL STRAWS – WHEAT STRAWS

12 – 12 OZ BAMBOO FIBER CUPS

SOLD AS 1/8TH PALLET DISPLAY

12 UNITS/DISPLAY

PALM LEAF PLATES & BOWLS

- Manufactured from naturally fallen palm leaves in India
- Every plate and bowl is unique
- 100% Compostable and Biodegradable
- No trees are harmed during manufacturing
- Manufacturing process is 100% chemical free
- The remnants of the sheath after the molding are composted
- **CLAIMS:**
  - oven safe
  - microwave safe
  - leak proof
  - oil proof

CREATED FROM FALLEN LEAVES WHICH ARE COLLECTED, PRESSED AND MOLDED

RECYCLED CARDBOARD MOLDED FIBER

KITCHEN FOOD WASTE BIN

- Made from 100% end-of-life recycled corrugate cardboard
- Proprietary bio-based leak proof additive
- Fill up and compost the entire container
- No more cleaning bins or using leaking bags
- Home and industrial facility compostable
- Accepted in compost facilities

ECO COOLER

- Reusable
- Made from 100% end-of-life recycled corrugate cardboard
- Convenient, strong handles
- Proprietary bio-based leak proof additive
- Recyclable and Biodegradable
- 30 Can Capacity with 10lb Bag of Ice

- CUSTOM SHAPES & DESIGNS
- LOW COST MOLD DEVELOPMENT
- CUSTOM LOGOS

BIODEGRADABLE & DISPOSABLE SIFTING LITTER TRAYS

- World's first fully biodegradable & disposable sifting litter trays
- Proprietary bio-based leak proof additive (patented)
- 4 sifting trays, 1 solid base
- Just lift, sift, and toss
- Trays can be re-used
- Can be used with any cat litter
- Lasts 2 months or more
- Made from 100% recycled old corrugate cardboard
- Certified - home and industrial facility compostable (BPI)
- OK compost/Vincotte Compost Certified

WE HELP YOU DESIGN CUSTOM SOLUTIONS OR PRODUCTS

Example Greenlid Products

- Made from 100% recycled cardboard
- Greenlid bio-based leak proof additive available

We Help Design

- Custom shapes & designs
- Low cost mould development
- Custom logos
- Drainage holes for plants
- From small grow pots to large coolers

WE PROVIDE SOLUTIONS AND EXPERTISE FOR ALL YOUR SUSTAINABILITY CHALLENGES

greenlid

WE ARE SOLUTIONS FOCUSSED EXPERTS IN
PLASTICS, RECYCLING AND COMPOSTING