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COMPOSTABLE PRODUCTS

***Developing a Sustainable
Foodservice Take-Out Packaging
Program***



BARE Hot Cups

- ***Our new BARE Paper Hot Cup is made from renewable resources, is 100% compostable and petroleum free, which make this cup very Earth friendly.***
- ***Made from at least 10% post-consumer recycled fiber; made from at least 90% renewable resources; the first-ever FDA compliant PCF paper hot cup. Most hot cups are coated with Low Density Polyethylene (LDPE), a petrochemical plastic. LDPE is non-renewable & non-compostable, making the only methods of disposal; litter, landfills or incineration. BARE cups are coated with an Earth friendly bio-based material that uses less energy and a significantly less greenhouse gas footprint. The BARE Hot cup meets ASTM 6400 composting standards and is suitable for hot liquids.***
- ***These compostable hot cups are the perfect cups for Greening your coffee program. Compostable in a commercial composting environment, our BARE Hot Cups have an inner lining made from 100% corn whereas conventional paper hot cups have inner linings made from a petroleum-based polyethylene coating.***
- ***Also, the paper comes from trees that were harvested from sustainable forests and the cups paperboard is elemental chlorine-free. These cups perform as well or better than regular paper hot cups.***



Taterware Cutlery

- ***The next generation of High-Heat Cutlery! This Taterware cutlery looks cool and stays cool. It is made from bio-based resins, potato starch, calcium carbonate and a proprietary biodegradable co-polyester that can hold its shape in high heat!***
- ***Help save the environment with this high quality line of cutlery. Good for the go or for when you just want to sit down at home with a bowl of soup. The environment will thank you and you will thank yourself for using this wonderful product. Each year, 40 billion polystyrene utensils are thrown into landfills across the country. Using biodegradables allows you to divert your "disposables" to the compost heap, saving you money on waste collection costs and saving the planet from excess waste. This cutlery passes all recognized tests of biodegradability/compostability. It is the best biodegradable cutlery on the market for hot soups or chili.***



Greenware Bio-Compostable Cold Drink Cups

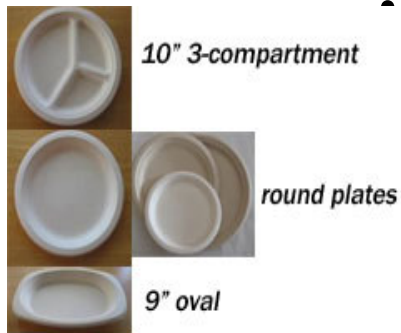
- Unbelievable but true, clear plastic cups are now made from corn starch! Rather than using a petroleum-based cup that has a one time use, how about providing your beverages in a container that's as biodegradable as the drink itself? These cups are made from PLA, a cornstarch bioplastic. Polylactic acid (PLA) is made from glucose from agricultural crops such as corn and potatoes. Products made from PLA are fully biodegradable and compostable. These cups are both vegan and non-oil-economy-based. The cups are biodegradable, compostable, and even reuseable. Just plough them under, or throw them in your compost bin! Microbes will eat them up in a matter of months. Your customers will appreciate that the values that inform the production of your food also guide your decisions about the containers the food goes in. These will take heat up to 118 degrees so please keep that in mind. Please note: These cups currently come with the following writing: "100% compostable, Made with Corn, Biodegradable"***



Coffee Stirrers - Wooden

- ***Mix up that morning drink without the plastic! These wooden coffee stirrers will do the trick without doing a number on the environment. Plastic coffee stirrers do not biodegrade and may even leach harmful chemicals into your hot drink. So provide your customers, employee lounge, or household with these eco-friendly coffee stirrers knowing you are doing both them and the environment a favor.***

Plates – certified compostable



- ***Greenwave Dinnerware - These plates are made from sugarcane reed and grass plasma.***

The quality of these super-sturdy plates is astounding. They are as sturdy as the toughest paper plate on the market and hold up great under just about any food conditions. More than that, they are absolutely beautiful in a light natural color. No trees were harmed to make these plates and they're bleached with hydrogen peroxide, which means no harmful chlorine in our water supply!

- ***Chinet - 6, 8 3/4" & 12 oz. bowls, made with 100% recycled paper fiber, made from a renewable resource, 100% compostable***



Trays – Greenwave



- ***These trays are made from a readily renewable resource – it's sugar cane stalk!***

The quality of these super-sturdy trays is astounding. They are as sturdy as the toughest paper tray on the market and hold up great under just about any food conditions. More than that, they are absolutely beautiful in a light natural color. No trees were harmed to make these trays and they're bleached with hydrogen peroxide, which means no harmful chlorine in our water supply!

Carry Out Cartons



- ***BioPak LeakProof Carry Out Cartons***

Bio-Pak Earth carry out boxes are perfect for holding box lunches, salads, or full course meals. Bio Plus Takeout Boxes are ready easy to use, require no assembly, are stackable, microwaveable, leak resistant and you can fold the top flaps back and eat right out of the container. These Bio-Pak Plus 100% recycled to go recycled paper food containers are a green alternative that is good for environmentally conscious takeout operations that want at least 35% post consumer content.

Taterware Compostable Straws



- *Taterware Green 7 3/4" Jumbo Biodegradable Wrapped Flex-bend Straws*
- *Color: Green*



To Go Bags

- ***6 1/2" x 8" Grease-Resistant Paper Cookie/Bagel/ Sandwich Bags made from recycled natural Kraft paper stock using an FDA approved chlorine-free manufacturing process; single serve bags, grease-resistant; packed 2,000 bags per case.***



Dispenser Napkins

- ***This Environmental Printed Xpressnap Dispenser Napkin makes it easy for you to show your customers that you care about the environment. The green messages ring true on a 100% recycled (90% post-consumer), EcoLogo - certified natural napkin, ("Save the environment, one napkin at a time" and "Made with 100% recycled material").***
- ***Its one-at-a-time napkin dispensing design ensures that patrons use fewer napkins and touch only the napkin they use improving personnel hygiene. Plus, one-at-a-time dispensing helps decrease consumption, so you'll reduce the number of cases you need to store. Xpressnap napkins are larger than major competitor interfolded napkins offering strength, absorbency and quality to users. One napkin-at-a-time dispensing provides up to a 25% reduction in napkin usage. Smaller than standard napkin cases offers storage savings of up to 50%. Inner bag packaging ensures superior product quality while protecting unused napkins.***
- ***Made from 100% recycled fiber and a Bleach-free process and 90% post-consumer content. Meets EPA guidelines for post-consumer content (Minimum 40% Post Consumer Content) offers environmental benefits and a positive image builder.***
- ***Environmental Choice "EcoLogo" Certified***

Compost Bags



- ***100% compostable bags. All of these products contain GMO free starch, biodegradable polymer and other renewable resources. No polyethylene is used in the production process.***
- ***Meet ASTM D6400 specifications and California SB 1749 requirements.***

Eco-friendly Hot Cup Lids, Trays and Stir Sticks

Complete your coffee service package with our complete line of matching eco-friendly hot cup lids, carry-out trays, and wooden stir stick.



- ***White Compostable Dome Lid for Eco Hot Cups***



- ***4-Cup Carry Tray - 100% biodegradable take-out tray made from renewable sugarcane.***



- ***7" Wooden Stir Sticks - 100% biodegradable wooden stir sticks are a better choice than plastic and a great choice to complete your coffee service package.***

Recycled "EcoGrip" Hot Cup Sleeves



- ***Not all coffee sleeves are equal. Ours are made of 100% recycled material, including up to 60% post-consumer content! Paper makes up over 40% of our nation's landfills. Not only is it important to recycle, but also to buy recycled products whenever possible to complete the loop!***
- ***100% biodegradable. Made using post-consumer materials.***

100% Recycled, 80% PCW Recycled, Unbleached Paper Towels

HK1975A - Tork
Universal
Perforated
Towel Roll,
2-Ply, 210 Ct.
Natural



- ***SCA paper towels are made from 80% post consumer waste recycled paper (PCW), - paper that has been used by consumers and collected through various recycling programs. No chlorine is used in its manufacture. The towels are hypo-allergenic.***
- ***If every household in the U.S. replaced just one roll of 120 sheet virgin fiber paper towels with 100% recycled ones, we could save:***
- ***1 million trees***
- ***2.6 million cubic feet of landfill space, equal to 3,800 full garbage trucks***
- ***and 367 million gallons of water, a year's supply for 2,800 families of four!***

ENVIRONMENTAL TERMS USED IN THE FOOD SERVICE PACKAGING INDUSTRY

- **Recyclable vs. Recycled vs. Post Consumer Waste Recycled**
- ***It is important to be clear about the meaning between the three often used terms. All paper is recyclable. The "recycling symbol" has very little meaning, as it can be used on items which can be "recycled" but may have zero recycled content. Paper which is designated as "recycled" can be a mixture of virgin wood fiber, pre-consumer waste or post-consumer waste. It is important to distinguish between the pre-consumer and post-consumer content in recycled paper. Pre-consumer content is paper made out of paper scraps and trimmings left over from the paper manufacturing process. These paper scraps and trimmings are easiest to recycle, as they do not have to be collected, separated, deinked etc. Post consumer waste (PCW) is paper made out of paper which has been used by the end consumer and then is collected for recycling from various recycling programs. This is the best paper to buy, as it uses and creates demand for paper which would normally end up in the landfill and no trees are cut down for making the paper.***
- ***The actual percentage of the recycled and post-consumer recycled content is important to note when buying paper, e.g. 50% recycled 20% PCW, means 50% comes from virgin wood, 30% is pre-consumer recycled and 20% is post-consumer recycled. We do our best to find paper products, which are 100% PCW recycled and are either unbleached or bleached without using chlorine or chlorine derivatives.***
- ***If every household in the U.S. replaced just one roll of 500 sheet virgin fiber bathroom tissue with 100% recycled ones, we could save:***
- ***423,900 trees***
- ***1 million cubic feet of landfill space, equal to 1,600 full garbage trucks***
- ***and 153 million gallons of water, a year's supply for 1,200 families of four!***

Standards Established for Compostability Claims

- *Bioplastics can take different length of times to totally compost, based on the material and are meant to be composted in a commercial composting facility, where higher composting temperatures can be reached (90-180 days). It is also important to make the distinction between degradable vs. biodegradable vs. compostable as often these terms are used interchangeably.*
- *Compostable Plastic is plastic which is "capable of undergoing biological decomposition in a compost site as part of an available program, such that the plastic is not visually distinguishable and breaks down to carbon dioxide, water, inorganic compounds, and biomass, at a rate consistent with known compostable materials (e.g. cellulose) and leaves no toxic residue." [American Society for Testing & Materials](#) (ASTM). For a plastic to be called compostable, three criteria need to be met:*
 - *1. Biodegrade - break down into carbon dioxide, water, biomass at the same rate as cellulose (paper).*
 - *2. Disintegrate - the material is indistinguishable in the compost, that it is not visible and needs to be screened out.*
 - *3. Eco-toxicity - the biodegradation does not produce any toxic material.*
- *Biodegradable Plastic is plastic which will degrade from the action of naturally occurring microorganism, such as bacteria, fungi etc. over a period of time. Note, that these products may leave behind a toxic residue, and there are no requirements for the time it needs to take to biodegrade OR THE LEVEL OF BIODEGRADABILITY.*
- *Degradable Plastic is plastic which will undergo a significant change in its chemical structure under specific environmental conditions resulting in a loss of some properties. Please note that there is no requirement that the plastic has to be degrade from the action of "naturally occurring microorganism" or any of the other criteria required for compostable plastics.*
- *A plastic therefore may be degradable but not biodegradable or it may be biodegradable but not compostable (that is, it breaks down too slowly to be called compostable or leaves toxic residue).*

Industry Standards

- *These international organizations have established standards and testing methods for compostability, namely:*
- *[American Society for Testing and Materials](#) ASTM-6400-99*
- *[European Standardization Committee](#) (CEN) EN13432*
- *[International Standards Organization](#) (ISO) ISO14855 (only for biodegradation)*
- *[German Institute for Standardization](#) (DIN) DIN V49000*
- *The ASTM, CEN and DIN standards specify the criteria for biodegradation, disintegration and eco-toxicity for a plastic to be called compostable.*
- *Biodegradability is determined by measuring the amount of CO₂ produced over a certain time period by the biodegrading plastic. ASTM, ISO and DIN standards require 60% biodegradation within 180 days. The EN13432 standard requires 90% biodegradation within 90 days.*
- *Disintegration is measured by sieving the material to determine the biodegraded size and less than 10% should remain on a 2mm screen for most standards.*
- *Eco toxicity is measured by having concentrations of heavy metals below the limits set by the standards and by testing plant growth by mixing the compost with soil in different concentrations and comparing it with controlled compost.*
- *In the USA, the BPI ([Biodegradable Products Institute](#)) certifies bioplastics under the ASTM 6400-D standard for "compostable plastics" and awards their logo to products which pass this certification.*



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BPI Logo Program



- ***The BPI Logo Program designed to certify and identify plastic products that will biodegrade and compost satisfactorily in actively managed compost facilities.***

The Biodegradable Products Institute and US Composting Council (USCC) use American Society for Testing and Materials Specifications (ASTM) to approve products for their “Compostable Logo” effort. These specifications are the result of 8 years of intensive work by researchers, product manufacturers, composters, and resin producers to identify plastic and paper products, which disintegrate and biodegrade completely and safely when composted in a municipal or commercial facility, like Kraft paper, yard trimmings and food scraps.

The “Compostable Logo” is awarded to any products meeting ASTM D6400 or D6868, based on testing in approved independent laboratories.