



## **Better for All PHBH Cups** Frequently Asked Questions

### PHBH MATERIAL

#### **What is PHBH?**

PHBH, or P-Hydroxy-Benzoate Hydroxylase, is a 'biopolymer', or a material made by living microorganisms. PHBH is a member of the PHA family of biopolymers, unique for their ability to biodegrade in almost any situation including airless environments like landfill, and in water.

#### **Where does PHBH come from?**

PHBH is made using fermentation. Special strains of soil micro-organisms are blended with seed oils in a warm water bath. The bath is kept at a constant temperature while the microorganisms consume the oils and metabolize them into the building blocks of PHBH. Using a chemical-free filtration technique, the PHBH is strained, dried, and then pelletized to be used in various manufacturing applications.

### PHBH CUPS

#### **18 oz Cup Design**

The Better for All PHBH 18 oz cup is designed for beer, kombucha, cold coffee, and blended drinks with a generous pour, a 98mm opening that snugly fits standard PLA or plastic lids, and a distinctive look so that it stands out in the crowd. Our cup is thin walled to help it compost more quickly, and its unique form makes it easy for waste management to sort.

#### **18 oz Cup Color**

The Better for All Cup is formed from pure PHBH with no additives or colorants. The innate properties of PHBH combine with our thin cup wall to produce a semi-transparent, semi-opaque cup. PHBH is a gold-toned material with some variability in appearance like all plant-derived materials.

#### **18 oz Cup Packaging and Carton Specs**

We stack our cups in our own Better for All compostable sleeves. There are 10 cups in each sleeve, and 25 sleeves in each 100% recycled cardboard carton.

#### **Printing**

Better for All cups can be printed with compostable ink. We do not offer inline printing at our factory currently. Please ask us for third party pricing, specifications, and guidelines.

#### **Where are Better for All PHBH Cups manufactured?**

Better for All cups are made in the USA.

#### **Minimum Order Quantities & Lead Time**

Our 18 oz cup MOQ is 1 palette, which holds 36 cases, or a total of 9000 cups. Lead time is dependent upon the size of your order. Contact us with questions: 626 553-0903.

#### **Future Cup Sizes**

Our 10 oz cup is in development. We will have samples on demand in late 2022-early 2023.

#### **Pilot Test Quantities**

Interested in trying our 18 oz cups before committing? Contact us about ordering less than palette size quantities. Samples are available upon request-call sales support at 626 553-0903.



## PHBH CUPS END OF LIFE

### **What is Commercial (also known as Industrial) Composting?**

Industrial composters are large scale facilities designed to process daily organics waste from municipal and commercial customers. Haulers deliver food waste, plant trimmings and pre-approved compostable packaging to the facility, where it is strained, ground into uniform pieces, and turned in large piles or hedgerows. The temperature and humidity of each pile is closely monitored to keep conditions optimal for the microorganisms, bacteria, and fungi that can turn organic matter into healthy soil. The Better for All PHBH cup fully biodegrades fastest in a commercial composting environment.

### **What is Anaerobic Composting?**

Industrial anaerobic composting combines food and agricultural waste with water and special microorganism that thrive in airless environments. Anaerobic composters are enclosed, and often trap the resulting methane gasses for use in place of natural gas. The Better for All PHBH Cups will fully biodegrade in anaerobic composters.

### **What does Home Compostable mean?**

Home compostable certification is granted to products and packaging that will biodegrade in a backyard compost pile in ambient temperatures. Backyard compost heaps are generally small and much lower in temperature than industrial composters. Better for All PHBH Cups are in laboratory testing for Home Compostable Certification, current results look promising.

### **Landfill**

The Better for All cups are intended to be collected and sent to commercial composting facilities, but we understand that not every city and state has this infrastructure in place yet. In those cases, facilities that must divert all organics waste to landfill can rest assured Better for All PHBH Cups will eventually biodegrade in landfill harmlessly.

### **What does Soil Biodegradable mean?**

The soil biodegradable certification guarantees that a product is completely biodegradable in the soil with no adverse effects on the environment. PHBH material is certified Soil Degradable.

### **What does non-toxic signify?**

Chemicals introduced to ease processing and improve performance of everyday packaging and products often also place human and environmental health in jeopardy: bisphenol-A, phthalates, dioxins and PFAs are just a few commonly used additives with proven links to cancers, human fertility disruption, and accumulation in our bodies, soil and water. At Better for All, we play it super safe and prohibit the use of additives to our Better for All Cups during manufacturing. Further, to pass strict compost standards, third party labs must verify that our products and materials are non-toxic.

## VENUES

### **Why PHBH cups?**

Recyclable disposable dishware is rarely recycled after use. Estimates put petroleum plastic cup recycling rates at around 5%. Typically either incinerated or sent to landfill, petroleum plastics take hundreds of years to degrade and release harmful toxins into adjacent soil and water.

At Better for All our mission is to remake the event cup industry using non-toxic, renewable



and biobased materials. Better for All PHBH cups are ideally collected and processed with food waste, compostable dishware, and plant trimmings in commercial composting facilities, but can also naturally degrade in landfill environments. Designed to work beautifully in crowded closed loop settings like stadiums and festivals, our cups are easy to recognize and sort by spectators and waste management alike, giving facilities a leg up in their pursuit of zero waste.

The NFL estimates that for every season game, approximately 80,000 pounds of trash is generated in and around the event. The resulting waste stream is food waste and items contaminated with food waste: cups, utensils, plates, napkins, bowls. Diverting food waste from landfill to composting is a significant component of our nationwide commitment to reducing U.S. greenhouse gas emissions. Non-compostable plastic, styrofoam, glass or paper requires expensive labor-intensive sorting to separate food waste before hauling. When venues switch to compostable cups and dishware, they can significantly cut down on sorting costs, confusion for customers at disposal points, and increase their contribution to local and national organics recycling efforts.

Better for All PHBH Cups, part of a growing circular materials economy, are fully compostable and non-toxic in commercial aerobic and anaerobic composting systems. Place your cup in the compost bin with your food waste as you leave the game, and venue waste management can send the entire contents of the bin to the local composting facility. If local commercial composting facilities have not yet been established, Better for All PHBH cups will naturally degrade in landfill without releasing harmful toxins. Venues can offer a tangible example of their commitment to sustainability while deepening spectator engagement and making a meaningful contribution to addressing waste. Win win win.

#### CONTACT

##### **Sales Support**

Dedicated phone line: 626 553-0903

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