



- Two essential motives have inspired the development of our teabags:
1. Manufacture a **Biodegradable teabag filter media**
  2. Make sure that it is **taste neutral and chemical free.**



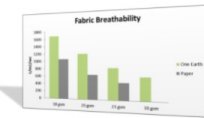
### About One Earth® certified coffee, tea, beverage and product filters

One Earth® food and beverage filter media is manufactured in the USA from Biodegradable fibers. One Earth® is biodegradable and compostable in 14 to 21 days. One Earth® comes varied weights, 24gsm (tea), 33gsm (coffee) and 40gsm (dusty products) and in a variety of standard widths. As tea bag manufacturers, we are committed to providing biodegradable teabags to tea producers searching for eco-friendly tea bags.

One Earth® filter media is produced in accordance with NWN's US Patent # 8,828,895 under the strict quality guidelines of ISO 9001-2015.

Features: Provides a great cup of tea in record time. One Earth® filter media has full taste neutrality, is biodegradable and translucent. The filter media shapes easily into pyramid, round or single chamber compostable tea bags.

One Earth® seals easily with ultrasonic processes as well as most conventional thermal packaging machines using a much lower temperature. In addition, clean trim waste can be recycled back into the filtration media.

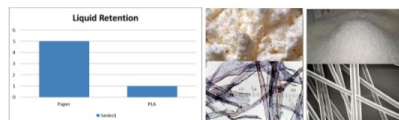


## A Great Cup of Tea in Less Time

Optimized fabric breath-ability provides an immediate water contact and diffusion with the tea leaves, without any "ballooning effect." Infusion time is optimized.

## Translucence

Our filter media allows for enhanced visibility of the tea and other flavored components. Filter becomes almost clear during infusion.



## Full Taste Neutrality

One Earth fabrics minimize tea flavor retention, unlike paper fabric, which absorbs and retains over five times its weight in water.

## Eco-Friendly Tea Bag

One Earth products are 100 % Biodegradable in landfill or compost piles. Made in the USA from a 100% annually renewable source. 100% Recyclable into itself. All scrap from beginning through tea bag manufacturing will be recycled back into fabric.



## Easy to Process

One Earth fabrics work on standard high-speed packaging equipment at reduced temperatures for energy savings. Seal on most standard heat sealing machines with no modifications. Seal on ultrasonic welding machines without major adjustments.

## Allergen Free

One Earth® does not use a chemical treatment during the manufacturing process. All components meet FDA requirements for Food and Beverage. One Earth® is allergy and gluten free.

## Fabrics Weights and Widths

- One Earth fabrics are available in various basis weights:
- 24gsm best used for tea blends
  - 33gsm best used for coffee
  - 40gsm best used for dusty products
  - Large variety of roll widths depending on the packaging machine

## Biodegradable Issue and Solution

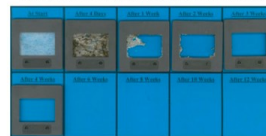
### Issue

Paper Tea bags are made or 15 to 35% of non-biodegradable residual plastics and chemical binders. Pyramid tea bags are made of Nylon fabric which is also non-biodegradable.



### Solution

Evolution of the Disintegration of One Earth Tea Filter Fabric



Click image to Enlarge

## Our Teabags are made of PLA

### PLA at a Glance

The process makes use of the carbon stored in plants by photosynthesis in the form of dextrose sugar.

- The carbon and other elements in these sugars are then used to make a biopolymer through a process of fermentation and separation.

- The resulting resin, called polylactid (PLA), can then be extruded into fibers molded thermoformed into packaging.

**PLA is more hydrophilic than common polyester fibers, facilitating wet-ability of the fabric.**

The biopolymer can be clear, opaque, flexible, or rigid. Much like polyester, it resists grease and oil. It provides Ultrasonic seal-ability and heat seal-ability at temperatures equivalent to polyolefin sealant resins.

### About Us

We are a team of industry professionals with strong backgrounds in polymers, fibers, nonwovens, and finished products.

[Learn More](#)

### One Earth



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