

World Centric produces high quality biodegradable food service disposables made from renewable materials."



# Reducing Resources: From Earth to Resin

## PLA vs. PLASTICS

### EVALUATING OUR FOOTPRINT

Our planet's natural resources are being utilized at an alarming rate to fuel our lives. In an effort to reduce this over-consumption, World Centric offers PLA as an alternative to plastic. Choosing PLA, which is made from corn, reduces the use of petroleum oil, lessens our foreign dependence, supports clean production and protects our health.



### OUR ROLE

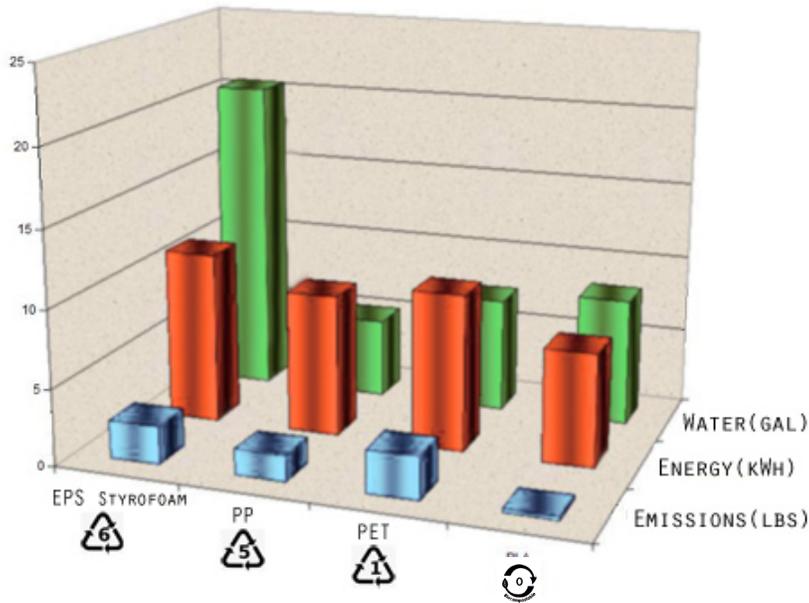
Our goal is to provide viable alternatives to plastic that come from sustainable materials and are easily biodegradable.

### DID YOU KNOW?

All forms of plastics, from the flimsy grocery bag to the shining new laptop, are derivatives of petroleum oil. In 2006, the U.S. generated 6 million tons of plastic waste. This amounts to 58 million kwh hours of electricity (enough to power your house for 5,444 years).

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## PLA VS. PLASTICS



* MATERIALS	WATER	ENERGY	EMISSIONS
PLA(Corn)	8.29 Gal	7.39 kwh	0.27 lbs
PP(Plastic)	5.16 Gal	9.25 kwh	1.7 lbs
PET(Plastic)	7.44 Gal	10.17 kwh	2.8 lbs
EPS(Styrofoam)	20.53 Gal	11.17 kwh	2.5 lbs

\*For 1 lb of materials

## PLA OVER PLASTICS

Using 5 PLA disposable items versus 5 Plastic disposable items for each day of 1 year. Saves 62 LBS of CO2 released in Atmosphere.

This equals =

9 Trees 

Driving 77 miles 

Powering 2 houses for 1 day 



## MORE ABOUT PLA

The benefits of PLA extend beyond its compostability. Since PLA is a natural farm product, it requires no mining or drilling. Because it's made of renewable resources, PLA uses 68% less fossil fuel energy than plastic.

### TYPES OF PLASTICS



**PET-Polyethylene terephthalate**

Used as synthetic fiber ("poly-ester" on clothing tags) and soft drink and water bottles.



**PP-PolyPropylene**

Used in disposable products, textiles, food packaging, stationary and other plastic parts.



**EPS-Expanded Polystyrene**

Used in styrofoam coffee cups, plates and take-out containers.



**PLA-Poly Lactic Acid**

Used in deli containers, grocery bags, and take out containers.

Source: Ervin, Vink. NatureWorks. "The eco-profiles for current and near-future NatureWorks polylactide (PLA) production." 1 November 2007. < -http://delivery.sheridan.com/index.php?ID=GEN\_114998\_EP- >

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