

kuraray

A High Barrier Solution to Multilayer Packaging

PLANTIC™ Coffee packaging



Bio-responsible coffee packaging

It's here ...

- Rich Flavor
- Fresh Aroma
- Long Shelf Life

... all in a sustainable, high barrier, flexible pouch



Traditional Packaging Options

- Rigid Containers

- Large footprint
- High transportation cost
- Not recyclable



- Multilayers Flexibles

- Light weight
- Space savings
- Not recyclable



The Challenge

- Eliminate waste yet keep functionality
 - High gas barrier
 - High aroma barrier
 - Oil resistant
 - Cost effective
 - Biodegradable
 - Recyclable
 - Repulpable



PLANTIC™ – Bio-responsible coffee packaging

- Compostable
 - Kraft Paper
 - PLANTIC™
 - PBS



- Recyclable
 - PE
 - PLANTIC™
 - PE



- Repulpable
 - Kraft Paper
 - PLANTIC™
 - PE



PLANTIC™ – Bio-responsible coffee packaging

Claims

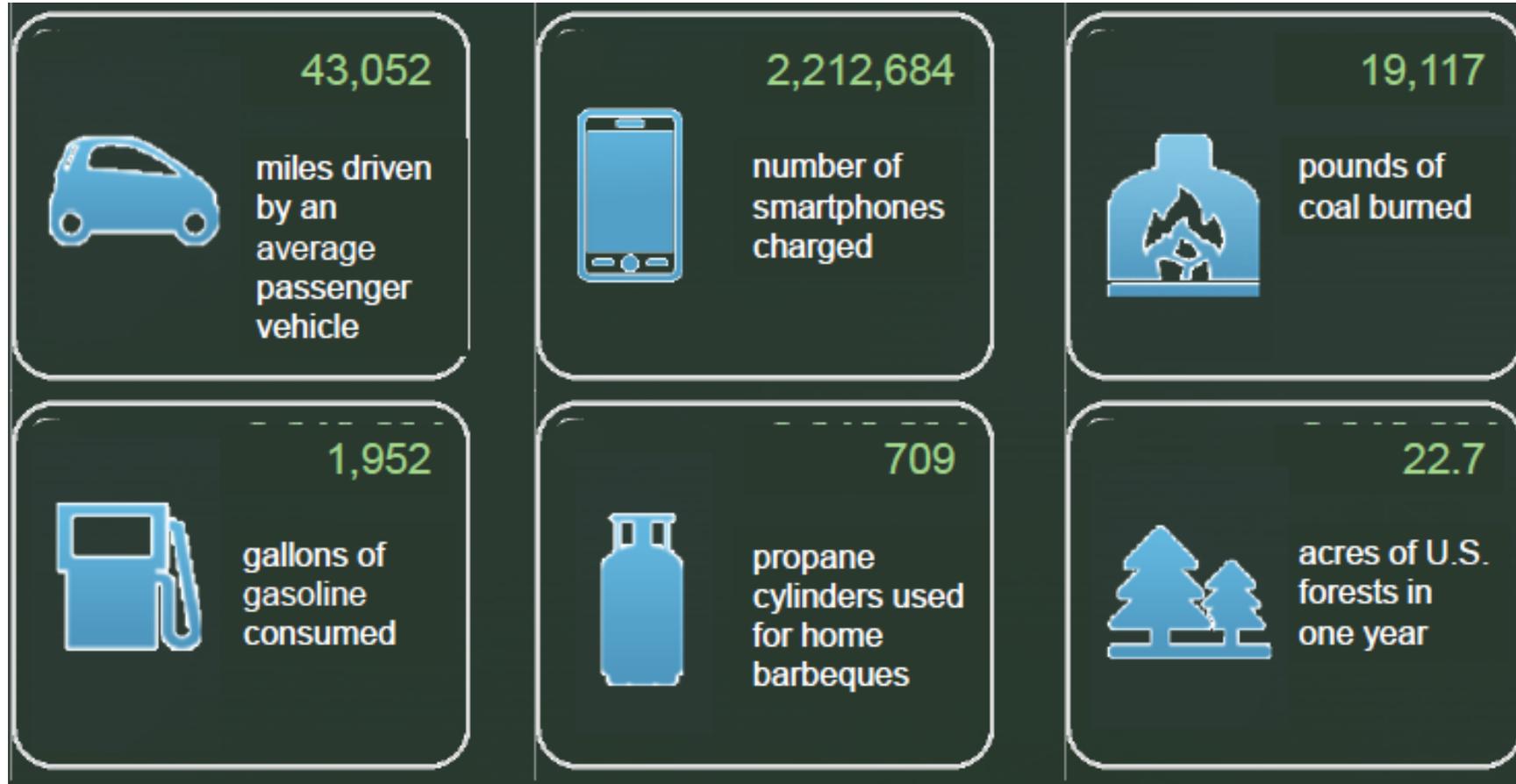
- FSC
- OK compostable
- OK water
- OK soil
- Recyclable
- Repulpable



Compostable
EN13432:2000



Impact of 1 million pouches



PLANTIC™ – bio-based barrier packaging material

- PLANTIC™'s raw materials

Corn Starch



Water



Masterbatch



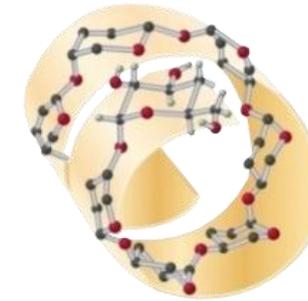
Linear Amylose molecule

PLANTIC™'s industrial corn starch has ~ 80% amylose, ~ 17% amylopectin

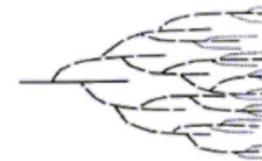
Cooked starch - not a “filler”

PLANTIC™ – bio-based barrier packaging material

- PLANTIC™ is a high barrier **biopolymer** made from (high Amylose) starch
- Starch is found in plants including maize, potatoes, rice, wheat and tapioca
- Regular starch has approximately 17% Amylose and 80% Amylopectin
- Special starch for PLANTIC™ has approximately 80% Amylose and 17%
- Special maize used to produce PLANTIC™ does not compete with normal food sources



Amylose starch
(linear structure)



Amylopectin starch
(branched structure)

Further questions?

- Please contact:

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The logo for Kuraray, featuring the word "kuraray" in a lowercase, blue, sans-serif font. The letters are bold and have a slight italicized feel. The background is white with abstract blue and light blue shapes at the bottom and right edges.

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