

# PRODUCT OVERVIEW



# I. Echo Friendly & Cosmetic Packaging (Biomass)

**ECO PRODUCT**



Brush handle



Airless bottle



Twist airtight compact  
(Refillable)



Refillable Cream Jar



Refillable Lipstick



Cream Jar



Make up compact



## Features for this echo materials

1. Paper(51%) + PP(49%)
2. Non toxic for Human
3. Completed testing
4. Reduction of CO2
5. Easy to replace existing non-degradable plastic injection products

### Development Background

Development of eco-friendly material's containers in response to increasing social needs for eco-friendly products

### Advantages

Can be produced in existing facilities

### Material technology

Cellulose micronization technology  
Biomass dispersion compound technology

### Certificate

EU : Apply for the Ok-biobased two star  
Korea: BP Certification

## II. Developing Packaging

New Packaging



New designs and functions, as well as eco-friendly materials.

But can be used the current mold.

Antibacterial Puff

Eco-friendly Bottle & puff

Eco Brush

2 layers compact

Refillable Sterilization Puff compact



### Features

1. Using existing molds, it is possible to produce various products or parts of them from eco-friendly materials. Examples: Airless container & cap, cream container & cap, compact, tube cap, lipstick parts, and so on. Now available.
2. Paper lipstick, it can be produced using paper and eco-friendly materials. Now available
3. Meets the eco-friendly material and paper for the airless bottle and others. Now available
4. Using UV LED light for the sterilized puff of compact.
5. LED compact for use in low light places

Normal Cream Jar



Refillable Jar Cream

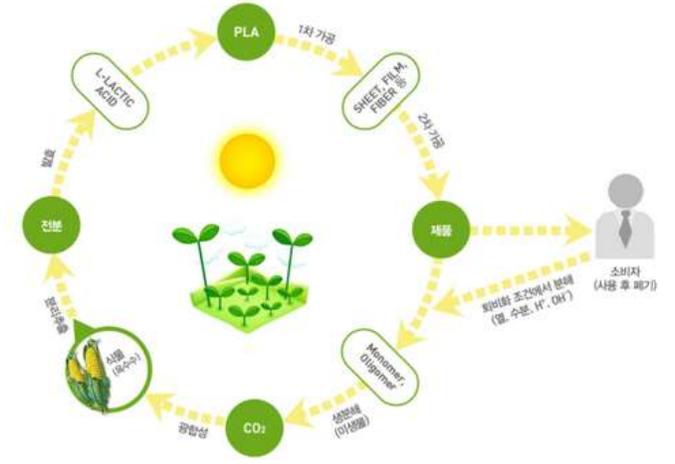
Refillable inner Jar



Inner cap: PP  
Outer cap: ABS  
Changable to eco-friendly materials

### III. PLA PAPER POUCH / BAG

**ECO PRODUCT**



<b>Development Background</b>	Development of eco-friendly material's pouch and packing in response to increasing social needs for eco-friendly products
<b>Advantages</b>	Use the existing facilities to produce. Available for all sorts of pouch and packing
<b>Material technology</b>	Paper, PLA(polylactic acid)
<b>Certificate</b>	EL724 in Korea /OK COMPOST / Biodegradation certification in EU, USA

### III. FACE MASK

PLA/Cotton/etc Mask



PLA Material Face Mask



PLA filter



KF94



Dental Face Mask



Cotton Face Mask /Refillable eco-friendly filter



Children's Dental Mask



#### Various Face Masks

1. PLA Material Face Mask and filter
  - Antibacterial, Odor free, Biodegradable, Without skin irritation
2. Cotton Face Mask
  - Replaceable PLA material filter, Without skin irritation, Washable mask, Comfortable breathing
3. KF94 face mask
  - Korean Food and Drug Certification, Prevent fine dust and yellow dust by 94%.
4. Dental face mask (Non-woven /MB filter)
  - Comfortable breathing

## IV. Eco-Friendly Products (PLA소재)

ECO PRODUCT



Normal & wrinkle straws, large, medium, small



Infant & Children's straw



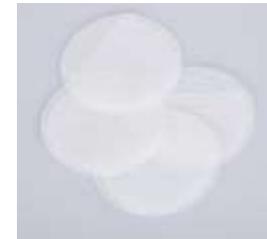
PLA Non-Woven



Cutlery



PLA+Paper Pouch



Cleansing pad (Dried type)



Meat pad



Mask sheet (Dried type)



### Features of PLA

1. The material of natural circulation by using PLA (Polylactic Acid)
2. Non toxic for Human
3. Antibiosis and antifungal character
4. Reduction of CO2 gas
5. Fast Biodegradation after landfill compare to Petroleum plastics.



### Features of Non-Woven

1. The material of natural circulation by using PLA (Polylactic Acid)
2. Using for ① mask pack, ② Coffee, green tea, red tea bag, ③ Food, Cosmetics, Women's and household goods, and many kinds of products.
3. Features: ① Very good hydrophilicity and extractability, ② It is tasteless, odorless, and conforms to food hygiene standards. Plant-derived biocompatible biomaterial



European biodegradation certification



U.S. biodegradation certification



Biodegradation certification In Germany



NON- GMO



100% Biodegradable Bio materials



Excellent flexibility



Chemical resistance & antiseptic



Excellent coloring & safety for food hygiene



Acquiring Korea Eco-Label for PLA resin

# [Appendix] Poly Lactic Acid (PLA) – Biodegradable polymer



## Material description

### Natural plant materials

- PLA ( Poly lactic Acid )
- PLA resin : NON-GMO PLA at Zhejiang Hisun biomaterials co., ltd

### Harmlessness for Human & Nature

- Not including synthetic resin (PC, ABS etc.), 100% Biodegradable in Nature
- Not happen toxic substance such like Bisphenol & Dioxin

### Replacement of synthetic plastics

- Excellent Bio-polymer which can use several fields
- Overcome exist problem (heat resistance) of PLA, Can adopt to many applications

### Authorized technology

- Confirmation of Korean green mark certificate and international biodegradable certificate



### Stable price

- Unrelated international oil price

# [Appendix] Poly Lactic Acid ( PLA ) – Biodegradable polymer

## Certification of PLA RESIN



DIN CERTCO  
(GERMANY)



OK COMPOST  
(U.S.A)



VINCOTTE  
(BELGIUM)



NON-GMO  
(SGS)



## Test report for the PLA products



JAPAN



FOOD-CONTACT SAFETY



THANK YOU  
FOR YOUR ATTENDING.