

OUTRIGER CORPORATION

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Nature needs to be healthy as well.

ECO friendly thinking,
And Ecomass is on the way.

ECOMASS Co., Ltd. specialized company for bioplastic.

ECOMASS Co., Ltd. has strived to concentrate on bioplastic industry since its establishment in 2007 and was ranked a leading company of domestic bioplastic industry.

To establish sustainable society, we have tried to expand the base of eco-friendly bioplastic and have taken the lead in the establishment and notification of “climate change response and reduction of toxicity in ecosystem” with bioplastic come from sugar cane to develop the ecosystem in domestic bioplastic industry through the process. Moreover, we have tried to promote excellency and differentiation of this industry through mass media whenever the opportunity arises and have done enlightenment activity to expand the base in the market.

We will try to make ecosystem of new industry as ‘bioplastic’ wider, more competitive and faster. Upon finding new applicable field, we will give wider chances for eco-friendly selection to customers. In addition to those activities, we will make our footing to advance into global market and China as well.

Being one step ahead of differentiation of existing eco-friendly material come from sugar cane, we will lead the market through constant research and development with sense of duty of first mover. Our company will be grown as shown in the motto of company like ‘Beneficial organization to the society’ by customer satisfaction through sustainable management, fulfillment of social responsibility through employment expansion.

Certificate & Patent



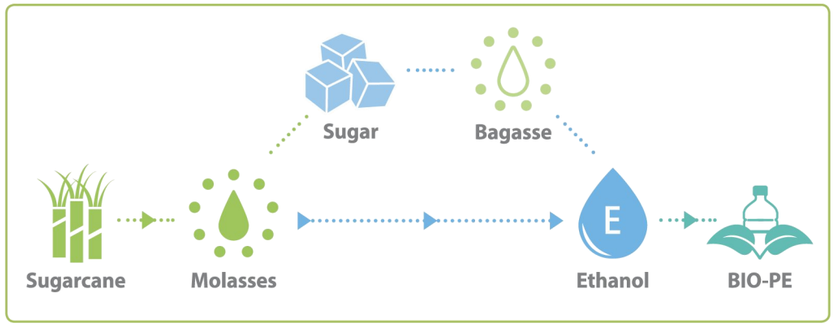
WHAT IS Biomass Synthetic?

Outline of Sugar cane Biomass synthetic materials

Aimed at constructing sustainable society, we produce sugarlab out of "Sugar cane", renewable resource to replace oil.

ECOMASS

Process drawing



Advantages of Sugarcane Biomass Synthetic

Why biomass synthetic resin?

	Ordinary plastic	Biomasssynthetic	resin Remark
Derived from	Petroleum	Sugarcane Waste molasses	
Reduction of CO_2	X	O	Reduction by more than 70% (by Tokyo University in Japan)
Renewability/Miscibility (conventional plastic)	O	O	Resources can be renewable
Physical characteristics	Tensile strength (N/㎠ 3,840) Growth Rate (159%)	Tensile strength (N/㎠ 4,010) Growth Rate (353%)	Equal to, or better than, plastic
Bio Content		100% Content can be adjusted to a customer's need	The US : Beta Analytic Belgium : VINCOTTE Korea : Institute of Geoscience and Mineral Resources
Price	Various	Economicl	
Conversion cost	X	No replacement of facility, process and personnel required	Existing facilities can be reformed.

◈ Ordinary plastics (PE, PP,PS), Eco-friendly materials(PLA, PBS...)

SUGARLAB®

Eco-friendly kitchen-ware
SugarLab

Safe from Environmental Hormones(BPA&Others) made out of TREMA

kiddlez

Eco-friendly Kid's tableware
KIDDLEZ

Eco-friendly infant supplies harmless to your kids.

Sugarcane Based | *Eco Certification* | *BPA Free / Safety* | *Design for Baby* | *Bio-Based* | *BPA Free / Safety*

Food Package | Kitchen Utensils | Picnic Receptacle | Gift Set | Cooking Tools

0~3 Year | BIO-Based Plastic | Eco-friendly | Microwavable | Freezable | Design for Baby





USDA CERTIFIED BIOBASED PRODUCT PRODUCT 100%

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 25%

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 98%

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 31%

Korea Eco-Label



Sugarlab Food Packaging Material



Premium Eco Bags

- EMSPEB100 | Premium Eco Bags (L)
  SIZE(mm) : 300×400 / 100BAGS
- EMSPEB200 | Premium Eco Bags (M)
  SIZE(mm) : 250×350 / 100BAGS
- EMSPEB300 | Premium Eco Bags (S)
  SIZE(mm) : 170×250 / 100BAGS



Eco Bags

- EMSEB100 | Eco Bags (L)
  SIZE(mm) : 400×250 / 100BAGS
- EMSEB200 | Eco Bags (M)
  SIZE(mm) : 350×200 / 100BAGS



Eco Roll Bags

- EMSEB300 | Eco Roll Bags
  SIZE(mm):370×270 / 200BAGS
- EMSEB 400| Eco Roll Bags
  SIZE(mm):370×270 / 200BAGS



Eco Zipper Bags

- EMSEZ100 | Zipper Bags (L)
  SIZE(mm) : 300×250 / 20BAGS
- EMSEZ200 | Zipper Bags (M)
  SIZE(mm) : 200×180 / 20BAGS



Eco Wrap

- EMSW100 | Eco Wrap
  SIZE(cm&m): 20×100m
- EMSW200 | Eco Wrap
  SIZE(cm&m): 30×100m



Eco Gloves

- EMSEB100 | Eco Gloves / 50EA
- EMSEB200 | Eco Gloves / 100EA
- EMSEB300 | Eco Gloves / Kids

Sugarlab Kitchen Appliance





Made from Sugar Cane







Cutting Board

- EMISB300 | Sheet Index Cutting Board
  SIZE(mm) : 395×132×270



- EMISB400 | Combo Index Cutting Board
  SIZE(mm) : 454×153×260



- EMSB500 | Cutting Board(L)
  SIZE(mm) : 435×255×12
- EMSB600 | Cutting Board(M)
  SIZE(mm) : 365×235×10



- EMSB 200 | Cutting Board/ Apple
- EMSB 300 | BUD Index Cutting Board
  SIZE(mm) : φ280×8



Rice Paddle

- EMSS 800 | Rice Spatula/Lion
  SIZE(mm) :190× 87
- EMSS 700 | Rice Spatula/Hippo
  SIZE(mm) : 102×185



- EMSS200 | Rice Spatula / Squirrel
  SIZE(mm) : 68×208



- EMSS100 | ECO Rice Spatula
  SIZE(mm) : 70×205



Picnic set

- EMSDS400 | Lunch Box
  SIZE(mm) : 200×130 ×145
- EMSDS400 | Mini Lunch Box
  SIZE(mm) : 200×130 ×145

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Made from Sugar Cane

Eco Friendly Sugar Cane Kids Dinnerware

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Baby Tray



• EMKD2800 | Angel Tray set
SIZE(mm) : 337×210×40
* Suction Plate

Bowl



• EMKD2100 | Soup bowl (L)
SIZE(mm) : 135×110×50
• EMKD2200 | Soup bowl (M)
SIZE(mm) : 115×100×50
* Suction Plate

Twin bowl



• EMKD2300 | Twin bowl
SIZE(mm) : 205×107×35

Cup



• EMSD2400 | Cup
SIZE(mm) : 82×72×85

Spoon&Pork-3P



• EMSD2500 | Spoon& Feeding spoon& Pork
SIZE(mm) : 45×39×163

BaBy Tableware Set



• EMKD1000 | Baby Tableware Set
SIZE(cm) : 44.2 X 32.3 X 7.3