

# Generation earth™

EARTH FRIENDLY PRODUCTS FOR A HEALTHIER PLANET

# FROM NATURE BACK TO NATURE



I'M COMPOSTABLE  
YO SOY COMPOSTABLE  
ICH BIN KOMPOSTIERBAR  
JE SUIS COMPOSTABLE

Generation  
earth

Generation  
earth

EARTH FRIENDLY PRODUCTS FOR A HEALTHIER PLANET

COMPOSTABLE  
**POP UP  
SPONGES**

MADE FROM 100% NATURAL  
BIODEGRADABLE CELLULOSE

36  
SPONGES

MACHINE  
WASHABLE

ODOUR  
RESISTANT

HIGHLY  
ABSORBENT

- ✓ REUSABLE
- ✓ ZERO PLASTIC
- ✓ EARTH FRIENDLY



# FROM NATURE BACK TO NATURE

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# ABOUT Generation earth<sup>TM</sup>

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At Generation earth, we offer a range of high-quality, biodegradable products made from renewable materials like plant starches, vegetable oils, and compostable polymers. Our manufacturing capabilities include modified resins, shopping bags, garbage bags, dog poop bags, produce bags, garment bags, courier bags, gloves, aprons, zip lock bags, cutlery, PLA cups, and tableware. Whether you're looking for products for your business or your home, we have something for you.

All our products meet international standards and are certified by leading organisations, including EN13432 (Din Certco), OK Compost, OK Compost HOME (TUV Austria), ASTM D6400 (BPI), AS4736, and AS5810 (ABA). By choosing Generation earth, you can be confident that you are getting high quality, sustainable products that are good for the planet and your business or home. Join us in creating a greener future.



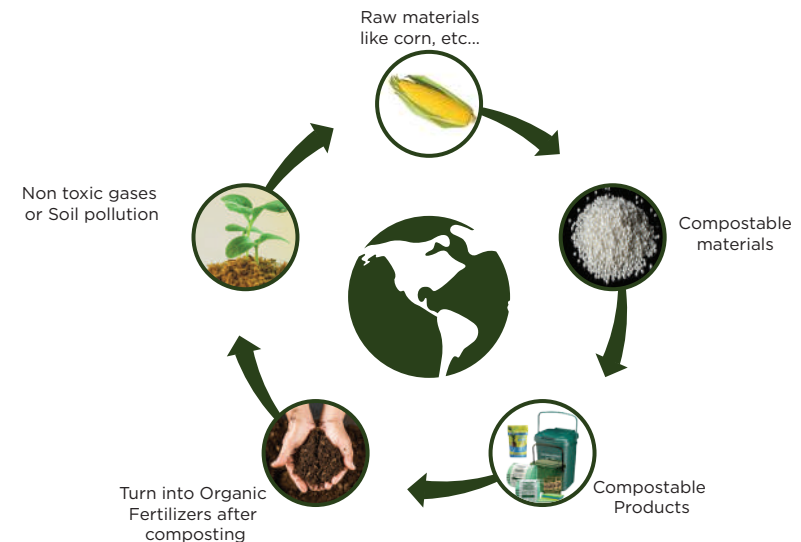
# SUSTAINABLY MADE

## LOW CARBON EMISSION - RENEWABLE ENERGY SOURCES

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**Solar Energy:** Our manufacturer uses renewable energy sources to reduce their carbon footprint and support sustainability. They have installed a 2MW solar energy system that provides 70% of their annual electricity consumption. By harnessing the power of the sun, they are taking an important step towards a more sustainable future and reducing their reliance on fossil fuels.

**Wind Power:** In addition to solar energy, our manufacturer also sources electricity from the local Wind Power Generation Center in their area. This combination of renewable energy sources allows them to meet their energy needs while reducing their impact on the environment. By partnering with a manufacturer that shares our commitment to sustainability, we are proud to offer our wholesale customers high-quality, eco-friendly products that are good for the planet and good for business.



## POLLUTION FREE - COMPOSTABLE & BIODEGRADABLE PRODUCTS

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At Generation earth, we believe in the power of the circular economy. Our products are made from renewable resources and are compostable and biodegradable, which means they can be safely returned to the earth after use. By composting our products, they can be turned into organic fertilizers that nourish the soil and support the growth of new crops. This completes the circle of life and reduces waste in our environment. Choose Generation earth for sustainable products that support a healthier planet for all.

# EMISSION - FREE - VOC EMISSION CONTROL

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Our chosen manufacturer's manufacturing process includes:

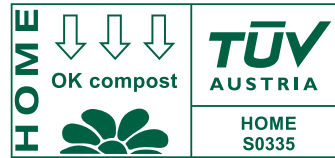
- A special machine to control VOC emissions, using spray, plasma, photo-oxidation, and activated carbon adsorption to handle gas generated in the film-extrusion process
- Recycling of all condensed water in their factory to minimise water usage and waste
- Total VOC emissions that are less than those of a small restaurant

By partnering with a manufacturer that shares our commitment to sustainability, we are proud to offer our wholesale customers high-quality, eco friendly products that are manufactured with the environment in mind.



# CERTIFICATIONS

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# COMPOSTABLE & BIODEGRADABLE MATERIALS



## PBAT

**CAS NO** : 55321 08-8

**Appearance** : Natural White Resin

Items	Standard	Unit	PBAT
DENSITY	ISO 1183	g/cm <sup>3</sup>	1.22 +- 0.03
MELTING POINT	ISO 11357	C	110-120
MELT FLOW INDEX	ISO 1133	g/10 min (190 C, 2.16kg)	5
TENSILE STRENGTH AT BREAK	ISO 527	MPa	18-21
ELONGATION AT BREAK	ISO 527	%	500
IMPACT RESISTANCE - DART TEST	ISO 180	KJ/M <sup>2</sup>	N.B
MOISTURE CONTENT	ISO 15512	%	0.1
SHORE D HARDNESS	ISO 7619	Hardness	39-41





## TRBF90

**Component** : Cornstarch, PBAT, PLA

**Appearance** : Light Yellow Resin

Items	Standard	Unit	TRBF90
Density	ISO 1183	g/cm <sup>3</sup>	1.15-1.2
Melting Point	DEC, 10°C/min	C	120-130
Melt Flow Index	ISO 1133	g/10 min (190 C, 2.16kg)	8
Tensile Strength (MD)	ISO 527	MPa	18
Tensile Strength (TD)	ISO 527	MPa	13
Elongation at Break (MD)	ISO 527	%	180
Elongation at Break (TD)	ISO 527	%	300
Elmendorf Tear (MD)	ISO 6383	mN	1000
Elmendorf Tear (TD)	ISO 6383	mN	2500



## TRBF95/96

**Component** : PBAT, PLA

**Appearance** : White Resin

Items	Standard	Unit	TRBF90
Density	ISO 1183	g/cm <sup>3</sup>	1.18-1.23
Melting Point	DEC, 10°C/min	C	130-140
Melt Flow Index	ISO 1133	g/10 min (190 C, 2.16kg)	10
Tensile Strength (MD)	ISO 527	MPa	25
Tensile Strength (TD)	ISO 527	MPa	15
Elongation at Break (MD)	ISO 527	%	120
Elongation at Break (TD)	ISO 527	%	200
Elmendorf Tear (MD)	ISO 6383	mN	750
Elmendorf Tear (TD)	ISO 6383	mN	1000

**COMPOSTABLE &  
BIODEGRADABLE**

# BAGS

**Generation earth™**  
EARTH FRIENDLY PRODUCTS FOR A HEALTHIER PLANET

T-SHIRT SHOPPING BAGS



DIE CUT SHOPPING BAGS



PRODUCE BAGS FOR  
VEGETABLES  
& FRUITS



C-FOLD BIN  
LINERS



COMPOSTABLE &  
BIODEGRADABLE

# COMMERCIAL BAGS

Generation earth™  
EARTH FRIENDLY PRODUCTS FOR A HEALTHIER PLANET

DOMESTIC  
BIN LINERS



LARGE BIN  
LINERS



DRAWSTRING  
BAGS



BIN LINERS  
WITH HANDLES





COMPOSTABLE &  
BIODEGRADABLE

# OTHER PRODUCTS

GLOVES



POP UP  
SPONGES



DISPOSABLE  
INJECTION PRODUCTS



ZIP LOCK  
BAGS



COMPOSTABLE &  
BIODEGRADABLE

# OTHER PRODUCTS

MULCHING FILMS



SEEDING - RAISING  
PLATES



AGRICULTURAL  
APPLICATIONS



## WHAT IS A "BIO BASED" PLASTIC

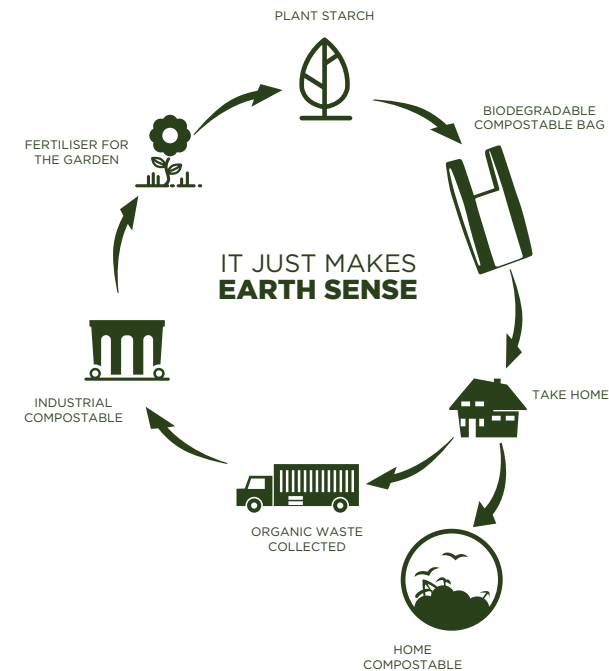
A bio-based plastic is made from renewable resources such as corn, potatoes, rice, soy, sugarcane, wheat, and vegetable oil instead of fossil fuels. These materials contain renewable carbon that can be used to make plastic products, reducing our reliance on non-renewable resources and decreasing our carbon footprint.

## WHAT IS A "BIODEGRADABLE" PLASTIC?

A biodegradable plastic can be broken down by naturally occurring microorganisms such as bacteria, fungi, and algae. This process yields water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>) and/or methane (CH<sub>4</sub>), biomass, and inorganic compounds. Biodegradable plastics help reduce waste in the environment by breaking down naturally, unlike traditional plastics which can persist for hundreds of years.

## WHAT IS A "COMPOSTABLE" PLASTIC?

A compostable plastic is a type of biodegradable plastic that can break down into water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), biomass, and inorganic compounds in a composting environment. The biodegradation during composting should be at a rate similar to other known compostable materials, and should not leave visual or toxic residue.



At Generation earth, we are committed to offering high-quality compostable products that are certified to meet rigorous international standards. These standards include:

- **Disintegration:** No more than 10% of the original dry weight of a product must remain after 84 days in a controlled composting test.
- **Biodegradation:** 90% of the organic carbon in the test materials must be converted to carbon dioxide within 180 days.
- **Non-toxic to plants:** The product must have less than 50% of the maximum allowable concentrations of certain heavy metals regulated by biosolids (U.S. EPA 503). Compost must also be able to support germination of two different plant species at a rate at least 90% of that in a "control" sample.

# Generation earth™

EARTH FRIENDLY PRODUCTS FOR A HEALTHIER PLANET

At Generation earth, we believe in the power of sustainable, biodegradable products to support a healthier planet and a more sustainable future. As a wholesaler of these products, we are committed to offering high-quality, ecofriendly solutions that meet the highest international standards.

Our products are made from renewable resources, are compostable and biodegradable, and are manufactured with the environment in mind. By choosing Generation earth as your wholesaler, you can be confident that you are getting products that are good for your business and good for the planet.

**Join us in creating a greener future today.**

## CONTACT US

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