

Nurturing the  
**EARTH**  
Composting the  
**FUTURE**



BIO  GENIX<sup>TM</sup>

COMPOSTABLE PVT. LTD.

# WHY COMPOSTABLE?

FEATURE	GENERIC PLASTIC	OXO BIODEGRADABLE PLASTIC	COMPOSTABLE
Material Composition	Derived from petrochemicals (such as oil, petroleum)	Typically, conventional plastic with additives that facilitate fragmentation through oxidation	Made from organic materials such as corn starch, potato starch and renewable resources
Degradation Process	Non-biodegradable breaks down into smaller plastic particles over centuries	Fragmentation through exposure to oxygen and UV light, resulting in smaller plastic fragments	Biodegrades into natural elements (e.g., water, CO <sub>2</sub> , biomass) through composting processes
Time to Degradation	Hundreds to thousands of years	Faster than generic plastic but still considerable (few years to decades)	Typically, within a few months to a few years under composting conditions
Environmental Impact	Contributes to long-term pollution microplastics are harmful to ecosystems	May still leave behind microplastics and toxins controversy over its environmental benefits	Minimal environmental impact supports soil health and reduces landfill waste
Disposal Method	Often ends up in landfills, oceans or incinerators	May require specific disposal methods to facilitate oxidation and degradation	Best to dispose in commercial composting facilities. It can contaminate recycling streams if not composted properly
Recyclability	Limited recyclability most facilities do not accept certain types of plastic	Not typically recyclable due to additives and fragmentation process	Not all compostable plastics are recyclable depends on the specific material and local recycling facilities
Regulatory Standards	Governed by various regulations often lacks strict guidelines for biodegradability	Standards for oxo biodegradable plastics vary across regions some countries have banned their use	Compostable plastics are subject to specific standards to ensure compostability and biodegradability



# INTRODUCTION

At Biogenix , we are on a mission to revolutionize the way we think about compostable products. We understand the pressing need for sustainable alternatives to traditional plastics, which is why we have dedicated ourselves to create compostable solutions that are both eco friendly and effective. Founded on the principles of environmental stewardship and innovation, Biogenix is committed to offer a diverse range of compostable products that meet the highest standards of quality and sustainability. From compostable granuels to compostable bags and all types of sustainable packaging, our products are designed to provide convenience without compromising the health of our planet. What sets us apart is our unwavering dedication to research and development. We're constantly exploring new materials and production techniques to ensure that our products not only perform exceptionally but also biodegrade responsibly, leaving behind no harmful residues. But our commitment goes beyond just creating compostable products. At Biogenix, we are passionate about education and advocacy. We believe that by empowering individuals and businesses with knowledge about composting and sustainable living practices, so that we can create a positive ripple effect that extends far beyond our products.





# NEW INSPIRATION

"Every day, we are faced with choices that shape the world around us. At Biogenix, we have chosen to be inspired by the possibility of a cleaner, greener future. Our passion for sustainability fuels our commitment to creating compostable products that not only serve a purpose but also leave a positive impact on the planet. We are not just reducing waste we are cultivating a mindset of conscious consumption and environmental stewardship. Together, let's sow the seeds of change and watch as they grow into a flourishing tomorrow."



## OUR VISION

is to envision a world where single-use plastics are obsolete, replaced by compostable compounding, films, and packaging that seamlessly integrate into a circular economy. Through our relentless pursuit of innovation and collaboration, we strive to be the driving force in creating a sustainable future where packaging solutions enhance both the environment and consumer experience, leaving a positive legacy for generations to come."



## OUR MISSION

is to lead the charge against single-use plastics by providing innovative compostable compounding, films, and packaging solutions that offer sustainable alternatives without compromising quality or convenience. We are committed to reduce plastic pollution, preserving ecosystems, and promoting a circular economy for the benefit of future generations."

# OUR INFRASTRUCTURE

As part of our commitment to sustainability and innovation, we are embarking on the establishment of an in house infrastructure and laboratory facility dedicated to the manufacturing of compostable compounds, colour masterbatches, compostable films and packaging products. This strategic initiative aims to enhance our capabilities, quality control, research and development efforts in the rapidly evolving field of eco friendly packaging solutions. Allocate a dedicated area within our premises for the setup of manufacturing equipment, laboratory facilities, and office space for research and development teams. We have Equiped the laboratory with state of the art testing equipment for analyzing material properties, moisture, ash content, compostability, biodegradability, and other relevant characteristics of compostable compounds and packaging products.

The establishment of an in house infrastructure and laboratory facility represents a significant strategic investment in our mission to deliver high quality, sustainable packaging solutions. By leveraging cutting edge technologies, expertise and collaboration, we are poised to drive innovation, ensure product quality, and lead the industry towards a more sustainable future.



# WE PRODUCE

## COMPOSTABLE COMPOUND

At Biogenix where we are revolutionizing the manufacturing landscape with our innovative compostable compound and bio granules solutions. In a world facing escalating environmental challenges, the need for sustainable alternatives has never been more pressing. Our commitment to sustainability drives every aspect of our operations, from sourcing raw materials to delivering cutting edge products that address the urgent need to reduce plastic pollution and minimize waste. As we specialize in creating compostable compounds that not only meet but exceed industry standards for eco-friendliness and performance. Our state of the art manufacturing processes leverage the latest advancement in materials science and technology to produce high quality, versatile solutions for a wide range of applications.



- **BLOWN TRANSPARENT COMPOUND**
- **THERMOFORMING COMPOUND**
- **MOLD GRADE COMPOUND**
- **SPECIALITY COMPOUND**

## COMPOSTABLE MASTERBATCHES COMPOUND

At Biogenix we are proud to introduce our pioneering compostable masterbatch solutions. As the global push towards environmental stewardship intensifies, the demand for eco friendly alternatives in the plastics industry has never been greater. As we are meeting this demand head on by offering innovative masterbatch formulations that are not only biodegradable but also contribute to the creation of a circular economy. From enhancing the biodegradability of conventional plastics to enabling the production of fully compostable end products, our compostable masterbatch solutions offer versatility and reliability across a wide range of applications. Whether you are in packaging, agriculture, consumer goods or beyond our masterbatch formulations can help you to meet your sustainability goals without compromising on quality or performance.



- COLOUR MASTERBATCH
- MASTERBATCH FOR SPECIAL FILM APPLICABLE GRADE
- MASTERBATCH FOR SLIP GRADE
- MASTERBATCH FOR ANTI MOISTURE
- MASTERBATCH FOR BRIGHTENER
- SPECIALITY ADDITIVES

# COMPOSTABLE FILMS



At Biogenix where we are pioneering the manufacturing of compostable films that redefine the way we package goods while minimizing environmental impact. In an era where the need for eco friendly alternatives to traditional plastics has never been more pressing, our commitment to sustainability drives every aspect of our operations.

Whether it is in the agricultural sector, food and beverages sector, pharmaceuticals, or any other sector requiring packaging solutions, our compostable films provide a versatile and reliable option. From extending shelf life and preserving freshness to reducing landfill waste and enhancing brand reputation, our films offer a multitude of benefits for businesses and the planet alike.

- **AGRO MULCH FILM**
- **STRETCH FILM**
- **SHRINK FILM**
- **SPECIALIZED FILM**



# COMPOSTABLE PACKAGING

At Biogenix we are reshaping the landscape of sustainable solutions through our innovative compostable bags and pouches. As the world confronts the environmental impact of single use plastics, the demand for eco friendly alternatives has never been more urgent. As we are proud to offer a range of compostable packaging solutions that not only meet but exceed the expectations of businesses and consumers alike.

From the sourcing of renewable materials to the design of biodegradable packaging, we prioritize environmental responsibility without compromising on quality or functionality. Whether it is packaging food, personal care products, or any other goods, our compostable bags and pouches offer the perfect combination of performance and planet friendly design.

- **CARRY BAG**
- **BAG ON ROLL**
- **GARBAGE BAG**
- **BIO MEDICAL WASTE BAG**
- **CUSTOMIZED COURIER BAG**
- **GROCERY BAG**
- **NURSERY BAG**
- **CUSTOMIZED PRINTING BAG**
- **ZIPPER BAG**
- **PET BAG**
- **ANTI STATIC POUCH**
- **LINER BAG**

# COMPOSTABLE THERMOFORMING & TABLEWARE CUTLERY



Compostable thermoforming and tableware cutlery are eco friendly alternatives to traditional plastic products, designed to reduce environmental impact. Thermoforming refers to the process of shaping plastic sheets into various products using heat. Compostable thermoforming utilizes biodegradable materials such as PLA, Starch, CPLA, and other plant based materials. These materials are derived from renewable resources and can be processed using traditional thermoforming techniques. After use, compostable thermoformed products can be disposed of in commercial composting facilities where they break down into natural elements, contributing to soil enrichment. As Tableware Cutlery are designed to replace traditional plastic cutlery, offering a sustainable alternative for single use applications. Both compostable thermoforming and tableware cutlery contribute to reducing the environmental footprint associated with single use plastic products, offering a more sustainable solution for food packaging and dining needs. They align with efforts to promote eco-conscious consumption and waste reduction initiatives.

● **THERMOFORMING**

● **STRAW**

● **TABLEWARE CUTLERY**

## COMPOSTABLE HEALTHCARE & HYGIENE

At Biogenix where sustainability meets healthcare and hygiene in our pioneering manufacturing of compostable products. In an era where the importance of environmental stewardship is increasingly evident, we are proud to offer innovative solutions that prioritize both the well being of individuals and the planet. As we understand the critical role that healthcare and hygiene products play in maintaining public health and safety.

That is why we have dedicated ourselves to developing compostable alternatives that not only meet the highest standards of performance and effectiveness but also minimize environmental impact with our range of compostable healthcare and hygiene products.

Whether it is in a healthcare facility, hospitality industry, or simply seeking eco friendly options for personal hygiene, our compostable products provide a sustainable and reliable solution.



● **BOUFFANT HEAD CAP**

● **HAND GLOVES**

● **APRON**

● **SHOE COVER**

## ENVIRONMENTAL IMPACT

**REDUCED PLASTIC POLLUTION:** Compostable products help mitigate the detrimental effects of plastic pollution by providing an alternative to traditional plastics that can persist in the environment for hundreds of years.

**BIODEGRADABILITY:** Compostable products break down naturally into organic matter, water, and carbon dioxide through microbial action in composting environments. This process reduces the accumulation of waste in landfills and minimizes the release of harmful chemicals into the environment.

**SOIL ENRICHMENT:** When compostable products decompose, they contribute valuable nutrients to the soil, enhancing soil health and fertility. This nutrient rich compost can improve soil structure, moisture retention, and nutrient availability, supporting plant growth and biodiversity.



## BENEFITS



### **SUSTAINABLE ALTERNATIVE:**

Compostable products offer a sustainable alternative to conventional disposable items, allowing consumers and businesses to reduce their environmental footprint and support more eco friendly practices.

### **WASTE REDUCTION:**

By choosing compostable products, individuals and organizations can minimize the amount of waste generated and sent to landfills, thus contributing to waste reduction efforts and promoting a circular economy.



### **CARBON FOOTPRINT REDUCTION:**

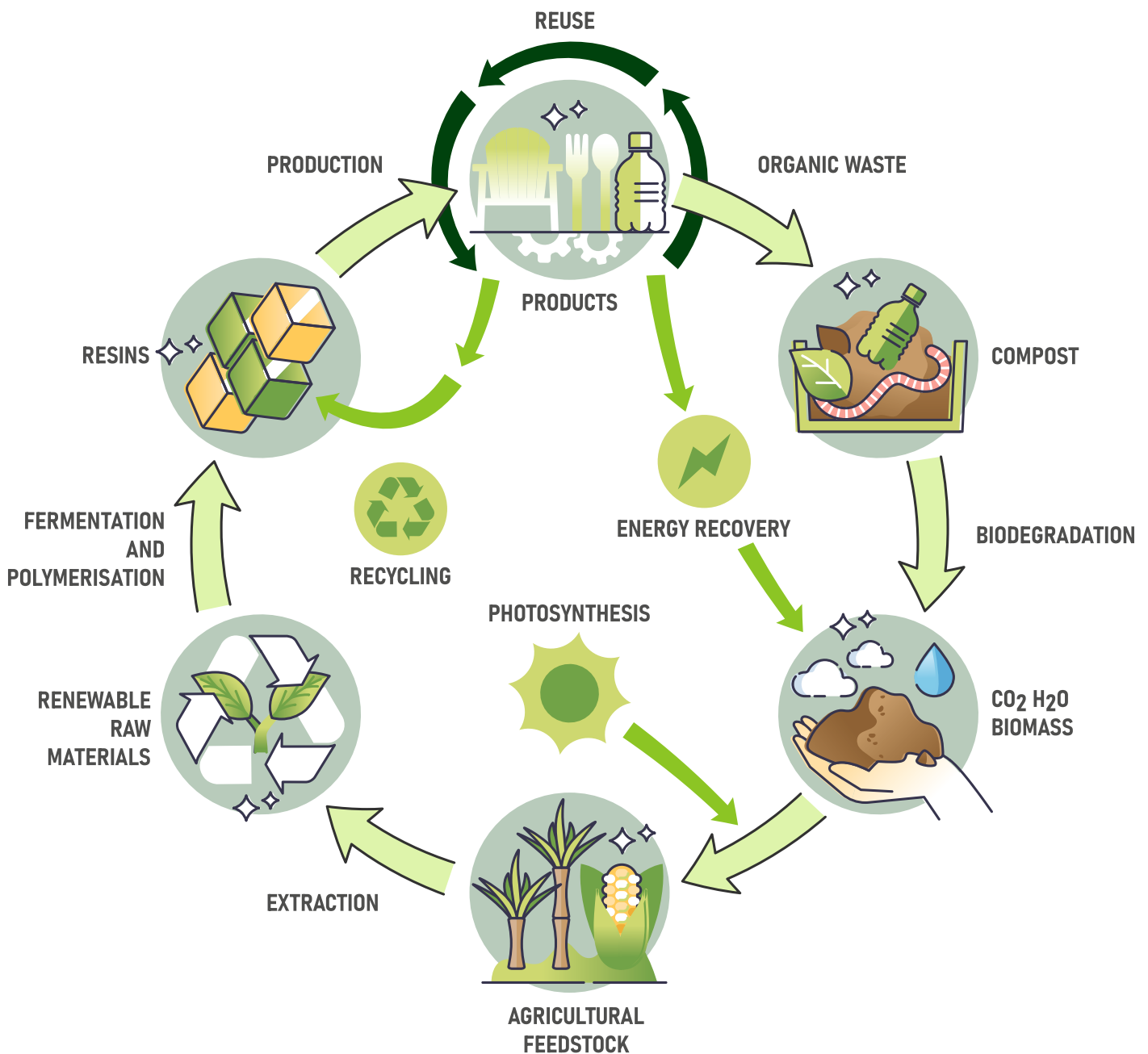
Compostable products often have a lower carbon footprint compared to traditional plastics, especially when they are made from renewable materials and produced using energy efficient processes.

### **PROMOTION OF CIRCULAR ECONOMY:**

Compostable products support the principles of a circular economy by closing the loop on resource use and waste management. They can be composted after use, returning valuable nutrients to the soil and supporting sustainable food production.



# THE LIFE CYCLE OF COMPOSTABLE MATERIAL



**From Soil to Soil Embracing Nature's Cycle with  
COMPOSTABLE MATERIALS**

## WHY TO CHOOSE US



### ONLY 9% OF PLASTIC TRASH IS RECYCLED

91% end up in landfill and in ocean. This low recycling rate underscores the urgent need for Improved more sustainable alternatives to Single use plastics. An estimated 12 million tons of plastic are dumped in the ocean every year.

### PLASTIC NEVER GOES AWAY

Plastic never truly goes away because it is not biodegradable like organic materials. Instead it breaks down into smaller pieces called microplastics, which can persist in the environment for hundreds or even thousands of years that means every single piece of plastic that ever produced is still somewhere on the planet.



### PLASTIC IS DANGEROUS TO HUMAN HEALTH AND WILDLIFE

Plastics pose health risks due to chemicals like BPA and phthalates leaching into food and water, causing hormonal disruptions and potential long-term health issues.

### SEABIRDS AND MARINE ANIMALS

Are killed by plastic through ingestion, entanglement, and toxicity. Ingested plastic can cause internal injuries and blockages, while entanglement leads to injuries and suffocation.



# BIOGENIX™

COMPOSTABLE PVT. LTD.

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