

Lexoⁿgo

PLA

Biodegradable Bag



 SUSTAINABLE DEVELOPMENT GOALS



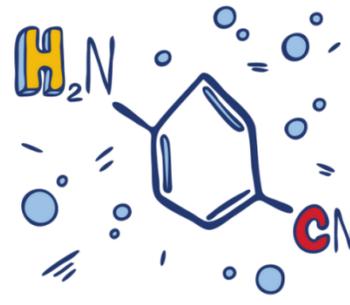
Are you looking for something...



Eco-friendly & Reusable



No Plastics



No Melamine

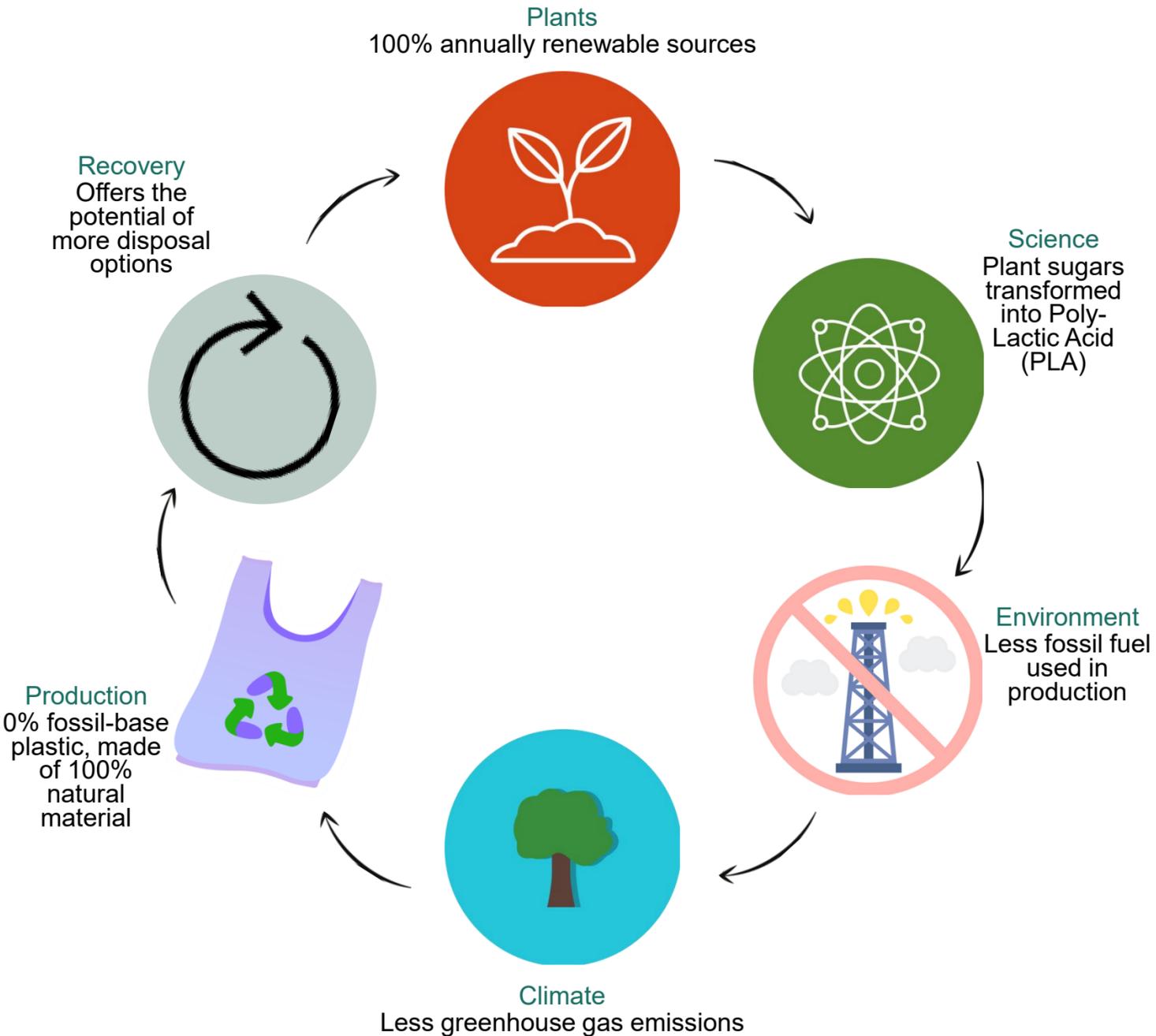


Made from sustainable material

To lead a sustainable lifestyle, there are different approaches & product options:

- 1) Durable -> Reuse -> Reduce Waste
- 2) Biodegradable -> Less Durable -> Minimize Plastic Waste
- 3) Recycle -> Use Recycled Materials or Recycle Materials

What is PLA?



How it's made?

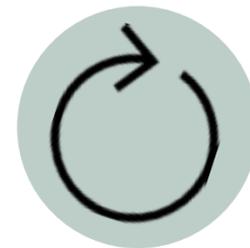
We use sugar taken from plants grown and transform this into Poly-Lactic Acid (PLA).

An ingenious material that's used to design innovations for clothing, personal care, the home, garden, electronics, appliances and new fresh food biopackaging.

»» Made of PLA (poly lactic acid) with fibre texture
NO fossil-base plastic, NO-toxic chemicals



»» Biodegradable, Compostable, Reusable
Comply with DIN EN 13432:2000-12 &
ASTM D 6400:2012-01 testing basis



»» Foodgrade materials and BPA free



FAST FACTS

Comparison

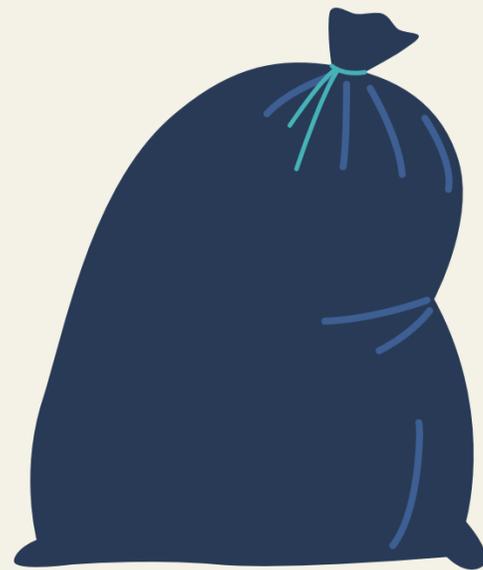
PLA BIODEGRADABLE BAG

WATER-SOLUBLE BAG

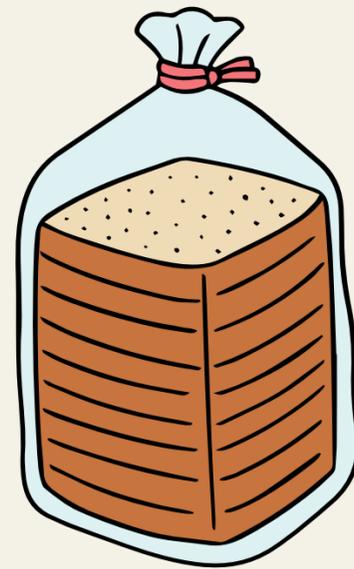
PLASTIC BAG

	PLA BIODEGRADABLE BAG	WATER-SOLUBLE BAG	PLASTIC BAG
Materials	Renewable Resources - Vegetable-based bioplastic	<ul style="list-style-type: none"> • Combination of Polyvinyl Alcohol (PVA), starch, glycerin & water • PVA is classified as a plastic made from fossil fuel sources 	Crude Oil - Petroleum based products (thermoplastic e.g., PE, PE, etc.)
Eco-friendly Production	 <ul style="list-style-type: none"> • Crops absorb CO₂ when growing • Takes less fossil energy to produce • Takes less greenhouse gases to produce 	 <ul style="list-style-type: none"> • PVA releases greenhouse gases like ammonia & methane which contributes to climate change 	 <ul style="list-style-type: none"> • Releases a variety of toxic chemicals • 3.4% of global greenhouse gas emissions
Environmental Protection	 <ul style="list-style-type: none"> • Biodegradable • 90-180 days under composting conditions • Degrades into non-toxic acid 	 <ul style="list-style-type: none"> • Biodegradable • 45 days to become 78% degraded under anaerobic conditions (requires presence of specific microorganisms & enzymes) 	 <ul style="list-style-type: none"> • Non-biodegradable • Tons of years (500-1000 years to decompose)
Recyclable	 <ul style="list-style-type: none"> • RECYCLABLE 	 <ul style="list-style-type: none"> • RECYCLABLE 	 <ul style="list-style-type: none"> • Not feasible • In 2018, only 8.7% of plastic was recycled globally
Eco-system Benefits	 <ul style="list-style-type: none"> • Far less microplastics problem • No dangerous greenhouse gases produced (methane) when it decomposes 	 <ul style="list-style-type: none"> • Can easily pollute waterways • PVA is a plastic pollutant, finding its way into waterways and soils 	 <ul style="list-style-type: none"> • Microplastics makes up 80% of all marine debris • Leakage of toxic substances in soil & waterways, affecting the human food chain
Environmental Benefits	 <ul style="list-style-type: none"> • CO₂ produced directly enters the soil & is absorbed by plants • Emits less smoke than petroleum-based plastics 	 <ul style="list-style-type: none"> • Does not produce any toxic or harmful by-products when incinerated 	 <ul style="list-style-type: none"> • More carbon dioxide is released into the atmosphere, causing a large amount of greenhouse gases into the air

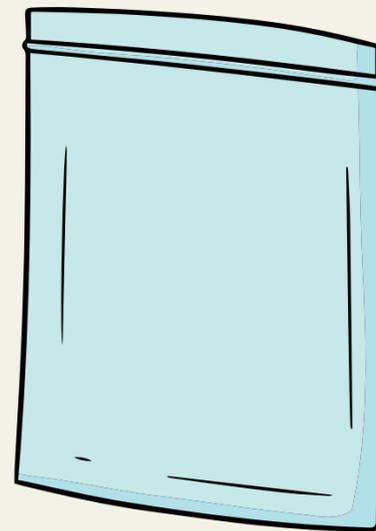
Transforming Plants into PLA Biodegradable Bags



Garbage Bag



Bread Bag



Delivery Bag



Supermarket Bag



Shopping Bag

PLA Garbage Bag

10L Garbage Bag



45 cm

20 cm

15L Garbage Bag



50 cm

22.5 cm

20L Garbage Bag



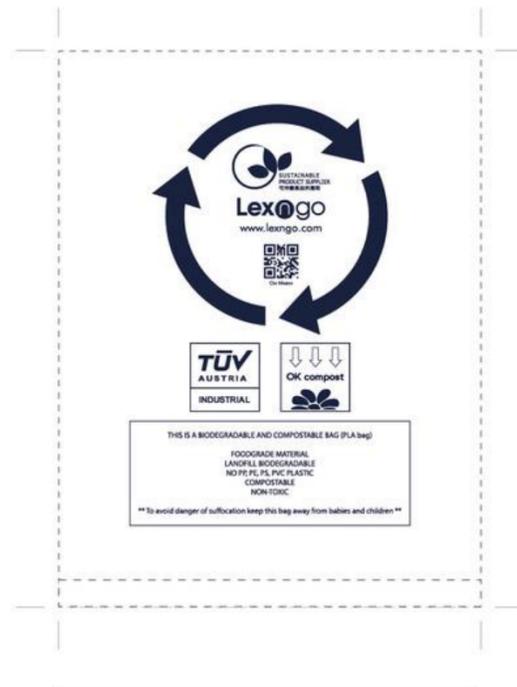
55 cm

25 cm



PLA Bread Bag

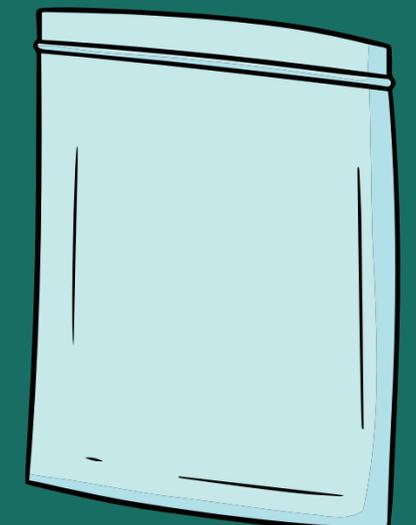
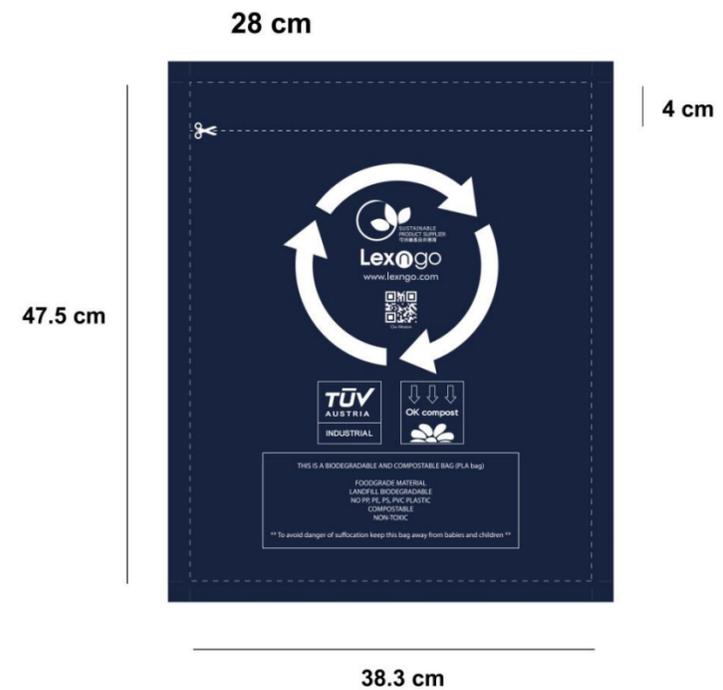
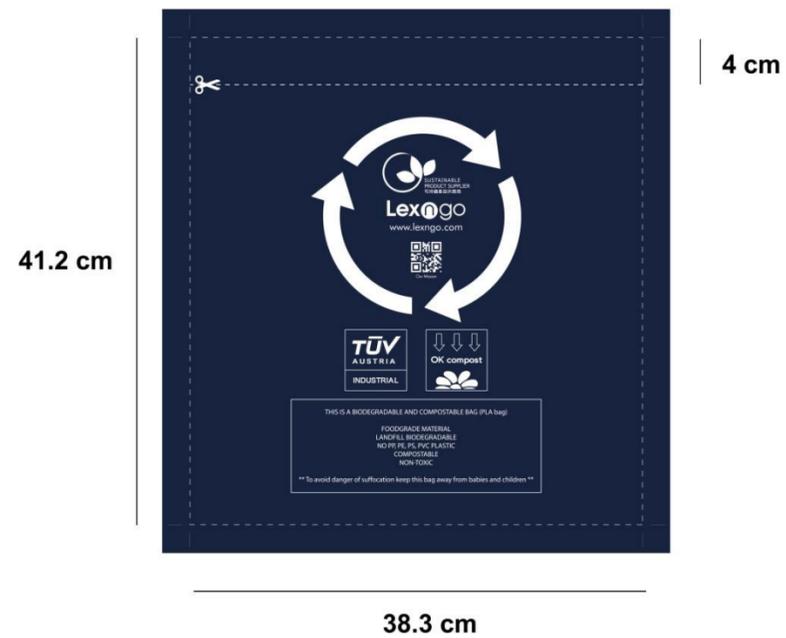
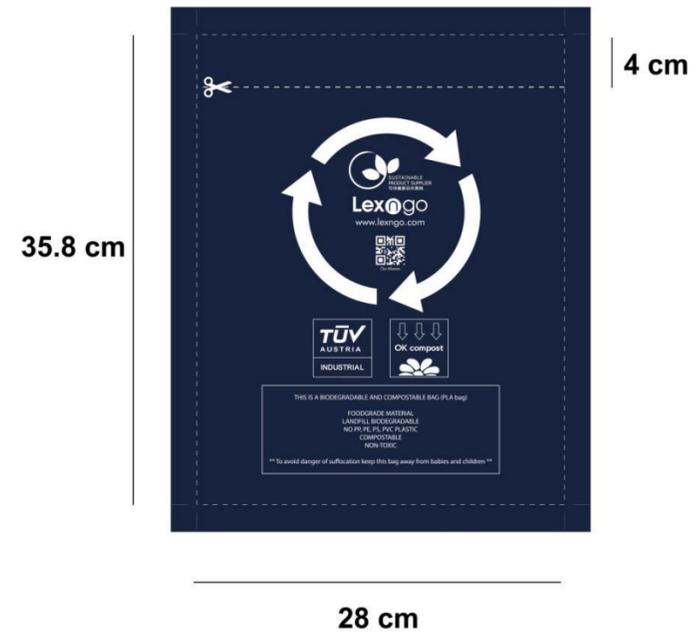
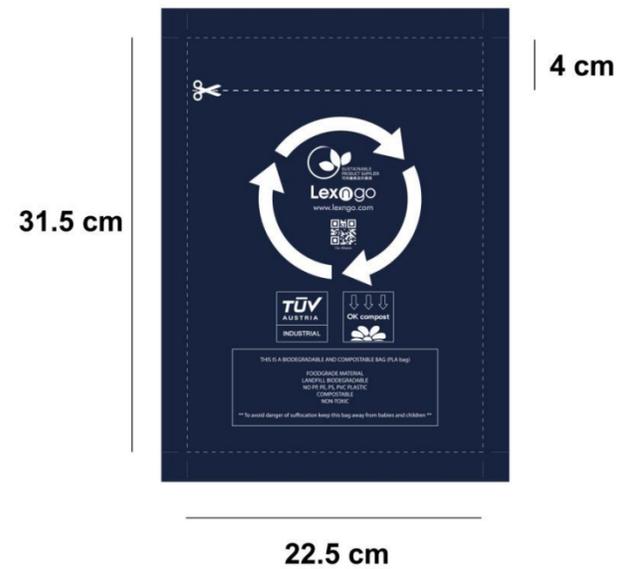
25cm



19 cm



PLA Delivery Bag



PLA Supermarket Bag

36.6 cm



25 cm

1.2cm



PLA Shopping Bag

42 cm



38 cm



6 cm 6 cm



Contact us

Address: Unit 5, G/F., Hing Hon Building,
26-36 King's Road, Tin Hau, Hong Kong
Tel: (852) 3110 1208 Email: info@lexngo.com



Website



FB page



Instagram

