

# Eco poly bag guide

weavabel®





## Eco poly bag guide

When your products travel through the supply chain, keeping them in pristine condition is a top priority. Whether your product is travelling from the manufacturing location to the distribution centre or to the consumer, you'll want to make sure they're protected. After all, damaged goods means increased returns and lost revenue.

That's where we can help. At Weavabel, we have a wide range of single-use and sustainable poly bags that are customisable to meet your branding needs. We also know how important sustainability is, which is why we offer a number of eco plastic options such as GRS certified LDPE, green PE and biodegradable cornstarch.

Want to know more?

**This guide explains everything you need to know.**



# The different types of poly bags



## Biodegradable

Biodegradable plastics can be decomposed by living organisms - usually microbes - into water, carbon dioxide and biomass. These plastics are commonly produced with renewable raw materials, microorganisms, petrochemicals or a combination of all three.



## Recycled and Recyclable

Plastics can be recycled through mechanical or chemical recycling. Mechanical recycling involves plastic being washed, ground and melted. Chemical recycling breaks plastic down into monomers to form new polymers that can be reused.



## Compostable

Compostable plastics are derived from renewable materials such as corn, potato and tapioca starches, as well as cellulose, soy, protein and lactic acid. Compostable plastics are non-toxic and decompose into carbon dioxide, water and biomass.



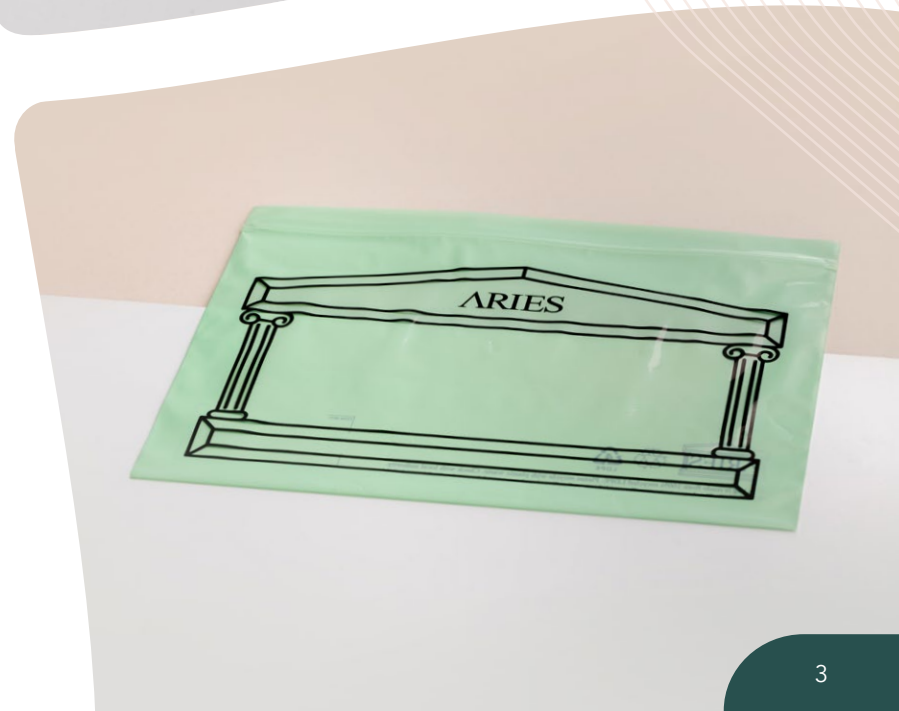
## Water soluble

This polymer is inherently biodegradable. Biodegradation has been observed by at least 20 different genera of bacteria and several yeasts and moulds which occur in activated sludge, compost, facultative ponds, landfills, anaerobic digesters and septic systems and in natural soil and aquatic environments. Sturm (aquatic) biodegradation tests show that the formulations degrade in the presence of activated sewage sludge at a similar rate to cellulose.



## Paper alternatives

Poly bags don't have to be made from plastic. We've created the Spruce Bag that's made from paper, yet still has all the benefits of a plastic poly bag, which can be recycled through household waste. Find out more about our Spruce Bag later on in this guide.



# Sustainable poly bags overview

## Recycled LDPE

Recycled Low-Density Polyethylene.  
Recycled and recyclable.  
Global Recycled Standard (GRS).  
0.03mm-0.15mm.



## Recycled LDPE + D2W

Recycled Low-Density Polyethylene with D2W additive. Recyclable and biodegradable. 18-24 months to biodegrade. EN 13432 Compliant.  
0.03mm-0.15mm.



## Recycled HDPE

Recyclable in most kerbside waste collections.  
Frosted.  
Made of: 30%, 50%, 70% or 100% recycled.  
Recommended Thickness: 60 micron.



## Green PE

Sugarcane ethanol LDPE.  
Recyclable.  
The Carbon Trust CO<sup>2</sup> Neutral.  
0.05mm-0.11mm.



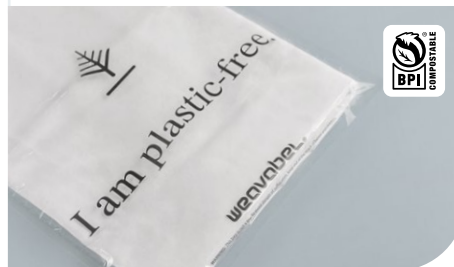
## Cornstarch

Cornstarch and modified biopolymers (PBAT, PLA).  
Biodegradable. 15-18 months to biodegrade. EN 13432 Compliant.  
OK Compost Certified.  
0.05mm-0.11mm.



## Spruce cellulose bag

Sourced from sustainable wood pulp.  
Home compostable.  
Thickness: 35gsm or 38gsm.



## Spruce paper bag

Durable, transparent paper.  
Reusable and recyclable.  
FSC certified.  
Translucent.  
Made of: 100% Paper



## Water soluble

Water soluble.  
Dissolves immediately in hot water.  
Marine-safe and non-toxic.



# Look out for the signs



## Mobius loop

Product is capable of being recycled but not necessarily accepted in all recycling collection systems.



## Triman logo

Product can be recycled through household waste disposal sorting.



## Standard EN 13432/14955

Products certified to be industrially compostable according to the European standard EN 13432/14955.

**Note: never place compostable plastic into the recycling with other plastics.**

It's designed to break down and can't be recycled, meaning it contaminates other recyclable plastics. Plastics that carry this symbol can be recycled with your garden waste through your local authority.

## Plastic resin codes

There are seven codes that identify the type of plastic resin used to make a product. They feature a 'chasing arrows' symbol with the 'Resin Identification Code' between one and seven.



### PET

Polyethylene Terephthalate



### PS

Polystyrene



### HDPE

High-Density Polyethylene



### Miscellaneous

Polycarbonate, BPA and other plastics



### PVC

Polyvinyl Chloride

### CPE

Chlorinated polyethylene



### LDPE

Low-Density Polyethylene

### AEVA

Ethylene Vinyl Acetate



### PP

Polypropylene



## Finish options

### Transparent

Material options: LDPE, PP, PET, PS and Green PE.



### Frosted

Material options: HDPE, CPE, cornstarch and EVA.



### Opaque

Material options: LDPE.  
Usually used for mailing bags.



## Closure options

### Grip Seal



### Slider



### Adhesive strip





# Weavabel's poly bag range

## Recycled LDPE - Recycled low-density polyethylene



### What is it?

Recycled LDPE is sourced from pre-consumer plastic waste.

### How is it made?

Waste LDPE offcuts from other products are repurposed into new plastic.

### Why is it sustainable?

Stops excess waste from going to landfill.

- ✓ Recyclable
- ✓ Clear
- ✓ Made of: 100% Recycled LDPE
- ✓ 0.03mm-0.15mm thickness
- ✓ 10,000 pieces MOQ
- ✓ 3-4 weeks sampling, 5-6 weeks bulk production lead times
- ✓ Global Recycled Standard (GRS) certified



## LDPE + D2W - Recycled low-density polyethylene with D2W additive



### What is it?

LDPE with added D2W to allow the material to biodegrade over time.

### How is it made?

D2W additive is mixed with LDPE pellets during production.

### Why is it sustainable?

This plastic can biodegrade, reducing the amount of harmful plastic waste in the environment and landfill.

- ✓ Recyclable and biodegradable
- ✓ 18-24 months to biodegrade
- ✓ Clear
- ✓ Made of: 99% LDPE, 1% D2W additive
- ✓ 0.03mm-0.15mm thickness
- ✓ 10,000 pieces MOQ
- ✓ 3-4 weeks sampling, 5-6 weeks bulk production lead times
- ✓ EN 13432 Compliant OK Compost Certified.





## HDPE recycled poly bag



### What is it?

A frosted and more luxurious option to recycled LDPE.

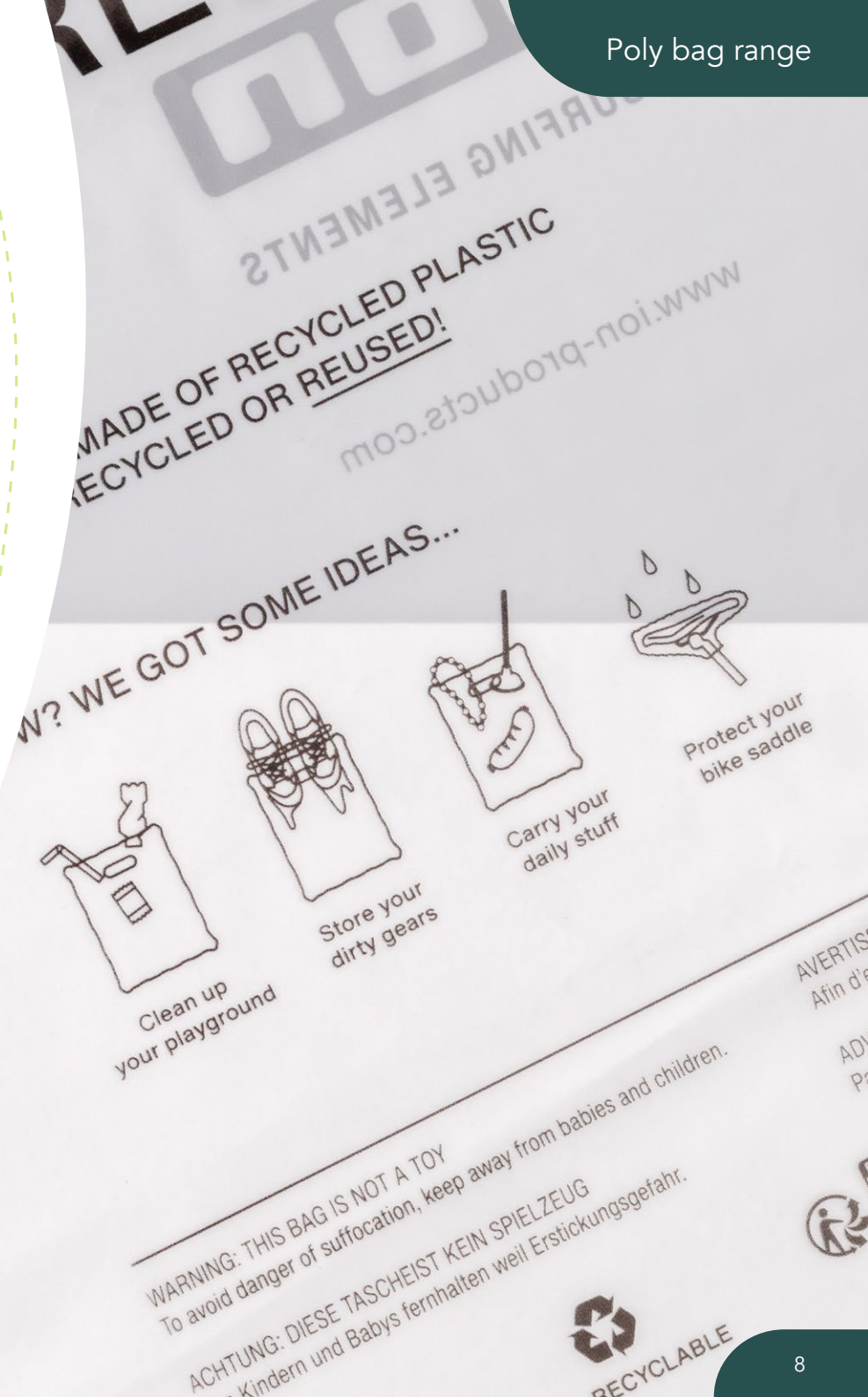
### How is it made?

Produced using a higher temperature, resulting in a stronger poly bag.

### Why is it sustainable?

Recycled and recyclable, stopping excess waste from going to landfill.

- ✓ Recycled and recyclable
- ✓ Frosted
- ✓ 30%, 50%, 70% or 100% recycled content
- ✓ 0.06mm thickness
- ✓ 3-week lead time
- ✓ Global Recycled Standard (GRS) certified





## Green PE



### What is it?

A plastic produced from sugarcane ethanol - a renewable raw material.

### How is it made?

A bio-based material made from sugarcane waste.

### Why is it sustainable?

This bio-based material is carbon neutral and the raw material is 100% recyclable.

- ✓ Recyclable
- ✓ Clear and printed
- ✓ Made of: 100% recyclable bio-based material
- ✓ 0.05mm-0.11mm thickness
- ✓ 50,000 pieces MOQ
- ✓ 3-4 weeks sampling, 5-6 weeks bulk production lead times
- ✓ CO<sup>2</sup> Neutral by The Carbon Trust.



## Cornstarch



### What is it?

Cornstarch is a biodegradable plastic made from natural plant materials.

### How is it made?

Cornstarch is mixed with modified biopolymers.

### Why is it sustainable?

This material can biodegrade in composting conditions.

- ✓ Biodegradable
- ✓ 15-18 months to biodegrade
- ✓ Clear or printed
- ✓ Made of: PBAT, PLA, cornstarch
- ✓ 0.05mm-0.11mm thickness
- ✓ 50,000 pieces MOQ
- ✓ 3-4 weeks sampling, 5-6 weeks bulk production lead times
- ✓ EN 13432 Compliant OK Compost Certified.





## Spruce cellulose bag



### What is it?

It's a film that's a totally clear, glossy material that looks and feels like a polybag, whilst being made of wood pulp cellulose.

### How is it made?

The cellulose film is composed of natural wood pulp fibres.

### Why is it sustainable?

It's a fully circular solution, made from pulp sourced from forests and being home compostable, helping to reduce waste.

- ✓ Clear material
- ✓ Plastic free
- ✓ Home compostable
- ✓ Biobased
- ✓ Made of tree cellulose
- ✓ Thickness: 0.02mm/0.03mm/0.035mm/0.042mm
- ✓ 10,000 pieces MOQ
- ✓ 3-4 weeks sampling, 6-8 weeks bulk production lead times.





## Spruce paper bag

### What is it?

A sustainable paper poly bag.

### How is it made?

Wood pulp fibres are pressed into thin sheets of durable glassine paper.

### Why is it sustainable?

A sustainable alternative to plastic using FSC- certified paper.



- ✓ Recyclable and biodegradable
- ✓ Made of: 100% paper
- ✓ Translucent and printed
- ✓ 35-38GSM thickness
- ✓ 1,000 standard, 30,000 custom MOQ
- ✓ Lead times: 48 hours from stock, 3 weeks for production
- ✓ FSC-certified



The mark of responsible forestry  
FSC® C101557

## Water soluble poly bag

### What is it?

A hydropol poly bag that can be dissolved in hot water.

### How is it made?

A flexible polymer technology that uses thermally processible polyvinyl alcohol.

### Why is it sustainable?

It can be dissolved in hot water and is marine- safe and non-toxic.

- ✓ Dissolves immediately in hot water without leaving residue
- ✓ Clear and printed
- ✓ 0.035mm thickness
- ✓ 50,000 pieces MOQ
- ✓ 4-5 week lead time





# Our product range

## Brand & care labels

Made from recycled polyester, organic cotton, bamboo and more.



## Swing tags & seals

Made from FSC-certified papers or bamboo, stone and many other options.



## Badges & tapes

Made from recycled polyester, FSC-certified rubber, organic cotton and more.



## Leather & metal trims

Made from alternative leather materials and sustainable metal options.



## Heat transfers

From single-colour prints to technical silicone-printed raised transfers.



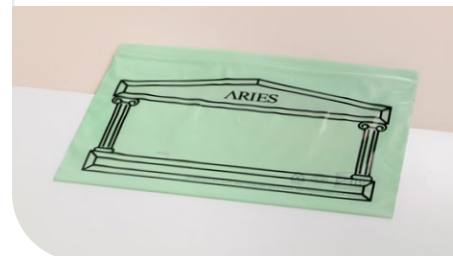
## E-commerce packaging

Kraft paper fluted boxes and mailing bags and envelopes.



## Poly bags

Made from recycled, water soluble or biodegradable materials.



## Gift packaging

Made from bamboo paper, kraft paper, organic cotton and more.



# Global footprint

Being global, we always think locally when dealing with your requirements, delivering our services wherever you and your vendors are in the world.

We are continually expanding our network of manufacturing locations and currently have warehousing facilities in 8 of the key strategic manufacturing locations in the world.

1. **Weavabel UK**  
Leeds, UK
2. **Weavabel China**  
Shenzhen, China
3. **Weavabel Lda**  
Maia, Portugal
4. **Weavabel HK Ltd**  
New Territories, Hong Kong
5. **Weavabel Pakistan**  
Karachi, Pakistan
6. **Weavabel India**  
New Delhi, India
7. **Weavabel Turkey**  
Istanbul, Türkiye
8. **Weavabel Bangladesh**  
Mirpur, Bangladesh
9. **Weavabel Vietnam**  
Hanoi & Ho Chi Minh City



# Let's get started

Ready to discover what we can achieve together? Get in touch with a member of our helpful team and we'll take you through the options that are right for you, making your supply chain run more smoothly.



## Or, discover your brand's potential with a weavabel custom range board

Let us know your requirements and we'll build you a bespoke range board filled with packaging and trim options, just like the ones you've seen in this brochure.





# Ready to switch your plastic bags for more sustainable alternatives?

Take the first step with Weavabel. Get in touch with a member of our team and provide your requirements, so we can help you reduce your plastic waste.

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