

FLO-PAK

# ECO FRIENDLY LOOSEFILL.

Pregis' Flo-Pak® products offer excellent protection for your shipping goods. Customers can choose between packaging chips made from 100% recycled polystyrene and from 100% non-genetically modified starch.

## The Pregis Purpose



### **PROTECT.**

Protect our planet by reducing damage. Protect customers' products, profits, brand and customer lifetime value.



### **PRESERVE.**

Preserve natural resources & the environment by designing for circular economy and operational excellence.



### **INSPYRE.**

Inspyre people through education, industry advocacy, and professional and personal development. People are the "y" in Inspyre.



# 6 reasons why our loosefill products are eco friendly

At Pregis we take the circular economy into account when determining 'green'. Our materials are designed to protect during shipment, reusable and recyclable all with minimal impact to the environment.



## 100% recycled or GMO-free starch material

Our GREEN and Standard chips are made from 100% recycled polystyrene, our BIO chips are made from 100% GMO-free starch.



## 100% reusable

Pregis only produces 100% reusable loosefill chips.



## 100% recyclable

Our polystyrene loosefill chips are 100% recyclable.



## 100% biodegradable

Pregis produces 100% biodegradable BIO loosefill chips and also degradable polystyrene loosefill chips



## EU Regulations

Meets the requirements of REACH, directive (94/62/EC), EN13427 and 21 CFR 177.



## Light-weight product

Packing with loosefill chips protect your products without adding excess weight to your package, which results in less CO2 emission during transport.



## Be Sustainable

You do not have to be a multinational to be sustainable. Pregis can help you to become more sustainable by using environmentally friendly packaging. Our loosefill chips are either made from 100% recycled polystyrene, for example cd-covers, shower cabinets and drinking cups, or are made from 100% GMO-free starch. This means that our products are made exclusively from non-genetically modified raw materials. Pregis only use starch that is already waste and is not suitable for other purposes, therefore, it does not have an impact on the food chain.

# Flo-Pak GREEN

## Designed for circular economy

The product is made from 100% recycled polystyrene and is designed to be reused for multiple times. Next to that, the product is 100% recyclable and is very suitable for energy recovery. In those cases the product ends up as litter in the environment, it is good to know that there is a back-up system in place: the product will degrade in the presence of microorganisms.

## What makes the product degradable?

Our degradable Flo-Pak GREEN is made from 100% recycled polystyrene that contains an additive, which will allow the product to degrade in the presence of naturally occurring microorganisms within 9 to 60 months. This additive does not affect the performance or the shelf life of our product, because degradation only occurs in the presence of microorganisms which are commonly found in landfills, home and commercial composting, and other areas where they exist in nature. The products will degrade in aerobic (with air) or anaerobic (without air) conditions.

## What causes the product to degrade?

Our product contains an additive that promotes the formation of a microscopic film on the surface of our Flo-Pak GREEN. Microorganisms in the film secrete acids and enzymes that break down the long polymer chains into smaller pieces, which can then be digested by the microorganisms.

## How do we know the product will degrade?

The additive used in the Flo-Pak GREEN has been tested by independent laboratories in accordance with standard test methods approved by ASTM, and other standardization bodies, and has been approved for marketing as degradable and safe for the environment.

## What is left when the product degrades?

After degradation, the resulting material has been transformed into carbon dioxide, water and inert-humus soil with no heavy metals or harmful chemicals.

## Does the additive impact the product's characteristics?

This additive does not affect the recyclability of the product nor the product's performance as an excellent, light weight, protective packaging material.

## Is there any special handling for this product?

No special handling is required to load, use or store the material.

## Will the additive transfer to other products?

No, the additive has been mixed with the raw material during the production of the finished packaging material and becomes a non-transferable part of the product.

## How do I dispose the GREEN chips?

If you choose not to keep and reuse the chips, you can dispose them in the plastic waste bin. In case the product ends up in the environment, it degrades into CO<sub>2</sub>, water and inert humus soil within 9-60 months.

## The Flo-Pak GREEN range consists of:

[The Environmental One \(Green\)](#)

[The Strong One \(Black\)](#)



# Flo-Pak BIO

Flo-Pak BIO is made entirely from natural raw materials – air, water and vegetable starch – and safely biodegrades within a very short time. It can be reused, disposed of or composted, and is 100% water soluble.

## Are your products GMO-free?

The BIO chips are made from starch which is 100% GMO-free; it is made exclusively from non-genetically modified raw materials.

## The soil that is now used for the production of this starch can also be used for grain, for example, so does this not contribute to the hunger in the world?

No, our BIO chips do not contribute to the hunger in the world. The starch that is used in our products is waste product and therefore doesn't have a negative influence on the food chain. This means that we do not use soil to grow these starch-products which we then use to produce our BIO chips.

## How do I dispose the BIO chips?

Our BIO chips are certified by DIN CERTO in accordance with EN 13432 making them industrial compostable. They completely break down into usable compost which provides valuable nutrients to the soil making it an extremely sustainable packaging solution. This means that you can just dispose the chips in your organic waste bin or even in water. They are namely compostable but also 100% water soluble. Our packaging chips may also be reused several times before disposal.

## Do I need to think about filling and storage?

BIO Chips are offered in different filling volumes which can directly be emptied with standard filling mechanisms. Thanks to the high abrasion resistance and antistatic characteristics, the chips can be used in automatic filling and silo systems without any constraints. However, as the material is only partly resistant to humidity and heat, the contact with water and direct sunlight should be avoided.

## Does it attract rodents?

No, this is a common misconception. BIO chips will not attract rodents any more than products such as polystyrene, paper or cardboard.



## The Flo-Pak BIO range consists of:

[The Bio One \(Green\)](#)

[The Clean Bio One \(White\)](#)

# The Pregis purpose

Pregis takes a holistic approach to support our customers and the environment. We ensure that we not only PROTECT our customers' products but their bottom line. We PRESERVE the environment by creating packaging for the circular economy, which means we create the highest quality products while using less raw materials and maximizing recycled content.

Through partnerships with CEFLEX, Alliance To End Plastic Waste, ISCC, FSC, among others, Pregis is helping to increase the amount of recycled materials recovered and given a second life. And as a company, Pregis strives to INSPYRE our employees, customers, and consumers to think more sustainably and give back to our communities.



## EXTREMELEY LIGHT-WEIGHT

Packing with loosefill chips protects your products without adding excess weight to your package. This means less CO2 emission during transport. And did you know our FLO-PAK is recognized as 'lightest man-made product on the world' by Guinness Book of Records?



## ENVIRONMENTALLY FRIENDLY RAW MATERIALS

The materials used in our chips are totally environmentally friendly, since they are made from either 100% recycled polystyrene or from 100% GMO-free starch.



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