

RETURN
TONATURE

Bio-PBS Lined PAPER CUPS



• Bio-based • Biodegradable • Compostable



INNOVATIVE PACKING SOLUTION FOR EVERY OCCASION

VIGOUR PACK



As a company committed to improving our environmental footprint, VIGOUR PACK has endeavored to offer products that are made from recycled content and plant-based material.

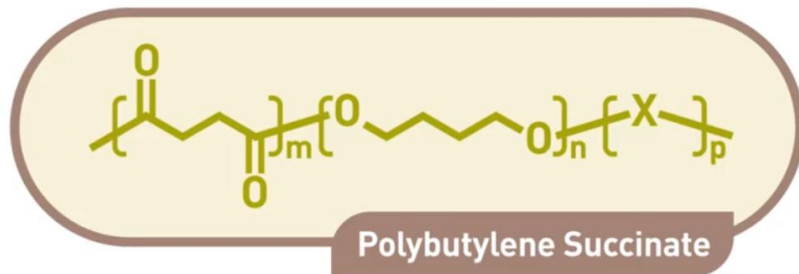
We offer compostable and biodegradable products, these sustainable products have the advantages of a traditional plastic package but with reduced environmental impact. From 2020, we are pleased to offer a new sustainable product line under our RETURN TO NATURE brand.

We have invested in biodegradable materials for paper cup coating. Our Bio-PBS lined paper cups are not just great for our customers, it's great for the planet.



ABOUT BIO-PBS

- Bio-based
- Biodegradable
- Compostable



PBS (Poly-Butylene Succinate) derived from corn or sugar cane and processed into Bio-PBS.

Due to its eco profile and high versatility, Bio-PBS is gaining attention in the framework of the growing bio-based economy.

BIO-PBS LIFE CIRCLE

Sugar
Cane

Bio-PBS Resin

VG Bio-PBS
Lined Paper Cups

100% Compostable
& Biodegradable

WHY BIO-PBS IS A GOOD SOLUTION?

COMPOSTABLE

- Fast degradability among biodegradable polymers
- Compostable in non-commercial compost.

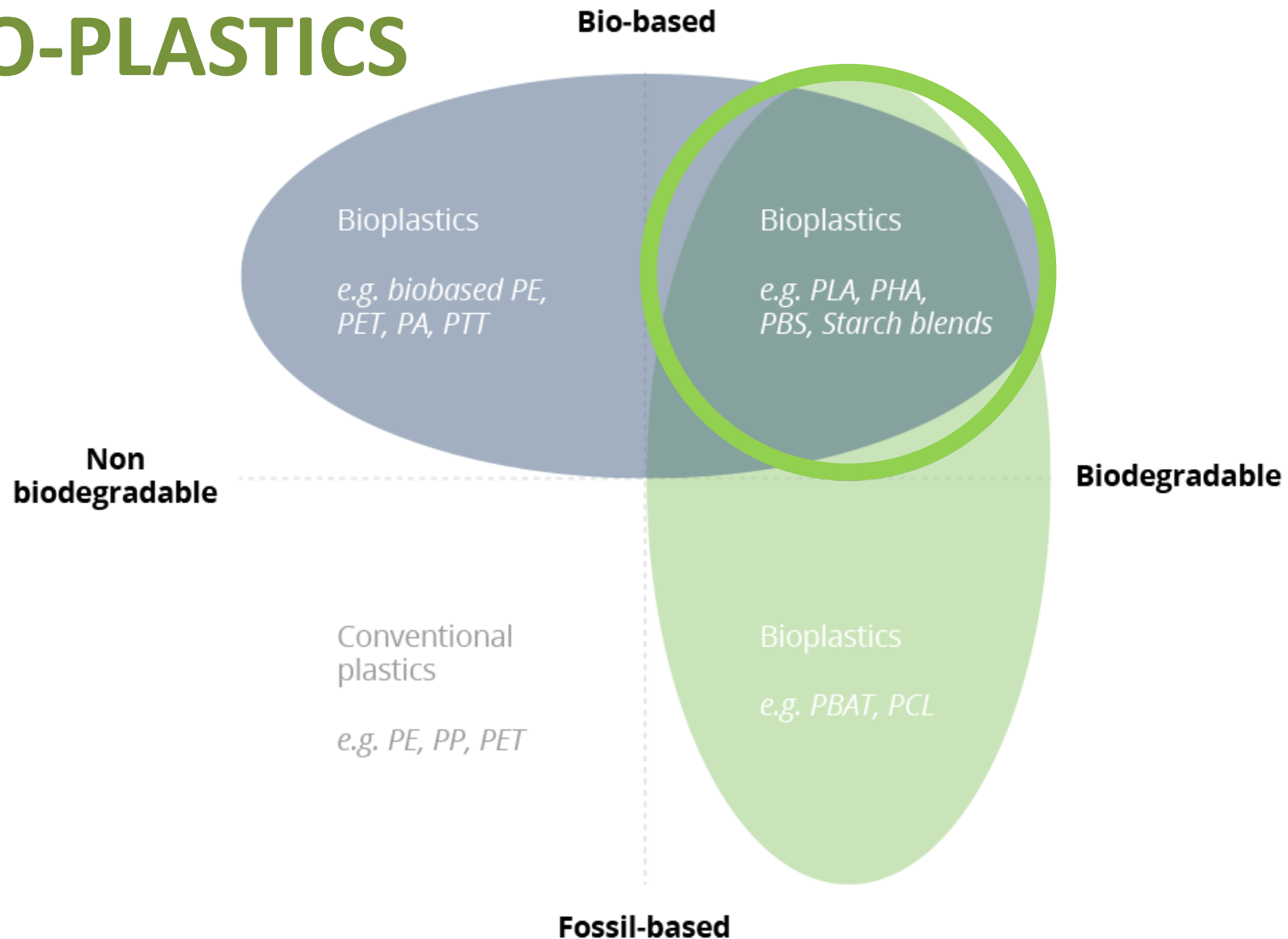
FOOD CONTACT

- High heat resistance
- Comply to OM-6 condition, EU Directive 10/2011
- GMP, JHOSPA, and applying FCN with U.S.FDA

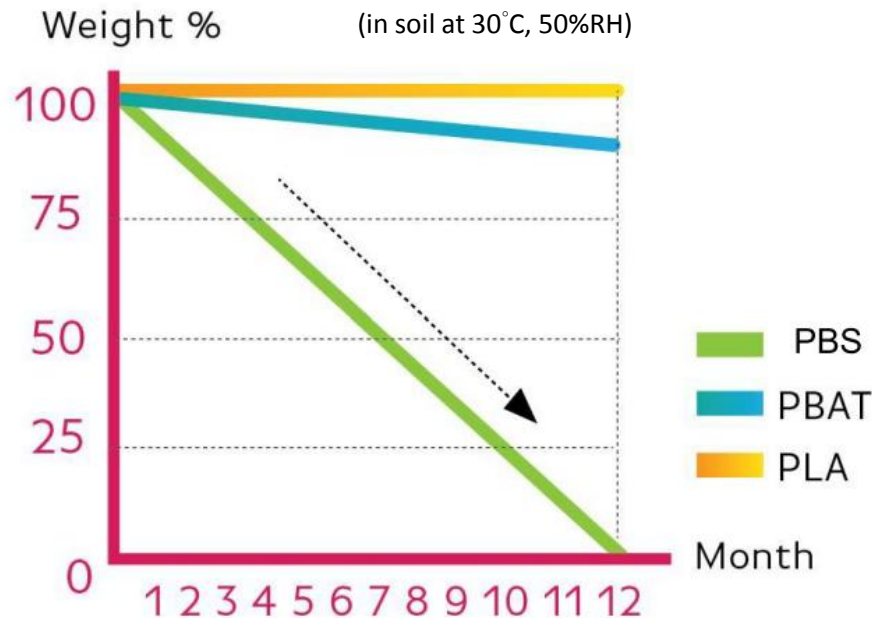
RECYCLABILITY

- PBS-lined paper shows excellent repulpability
- Achieve better recyclability results compared to conventional plastics

ABOUT BIO-PLASTICS

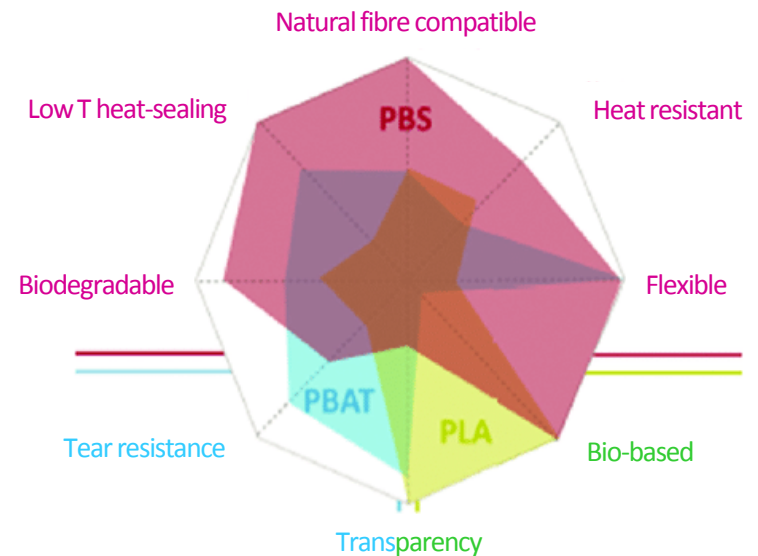


BIO-PLASTICS COMPARISON (PBS, PBAT, PLA)



Bio-PBS biodegradability is superior to others (better than PLA and PBAT).

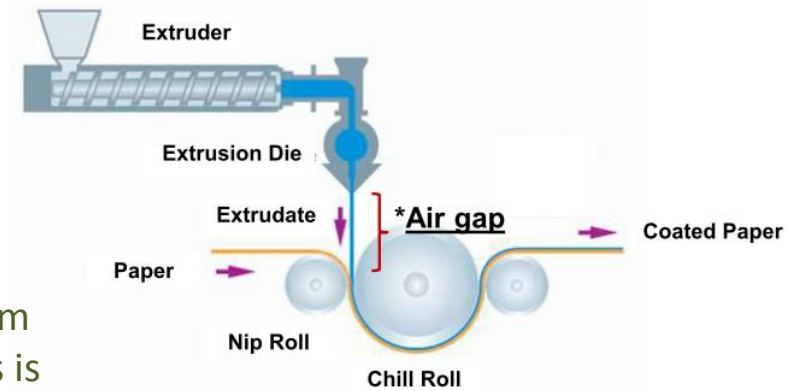
Bio-PBS decomposes into H₂O and CO₂ by microorganism in soil. The decomposition rate is more rapid than PLA and PBAT.



Bio-PBS has a high heat resistance among the general biodegradable resins, and high compatibility with fiber. (better than PLA and PBAT).

BIO-PBS FOR PAPER COATING

Bio-PBS has similar process ability as LDPE, Bio-PBS lined paper is not very different in processing and handling from traditional cups, so the range of Bio-PBS lined paper cups is same as traditional range.



FEATURES

- ▶ High compatibility with a fiber
- ▶ Excellent processability as good as LDPE
- ▶ Excellent printability without pre-treatment
- ▶ The line speed is faster and coating thickness is thinner than other bio-plastics
- ▶ Suitable for hot food service ware and cup up to 100°C
- ▶ Food contact approved by FDA (FCN No. 1817) and JHOSPA, and comply to EU 10/2011
- ▶ Reduced carbon footprint



EXCELLENT COMPOSTABLE & BIODEGRADABLE



Naturally compostable even in backyard after 12 months
(30°C (86°F) / 50% relative humidity conditions)

- Compostable in industrial facilities (6 months) or in ambient condition (30°C) in soil at open air landfill site.
PLA requires 60°C or 140°F and high humidity to compost.
- OK COMPOST certified by TÜV Austria in European Union



A Friendly catalyst to help you become
an environmentally friendlier brand.



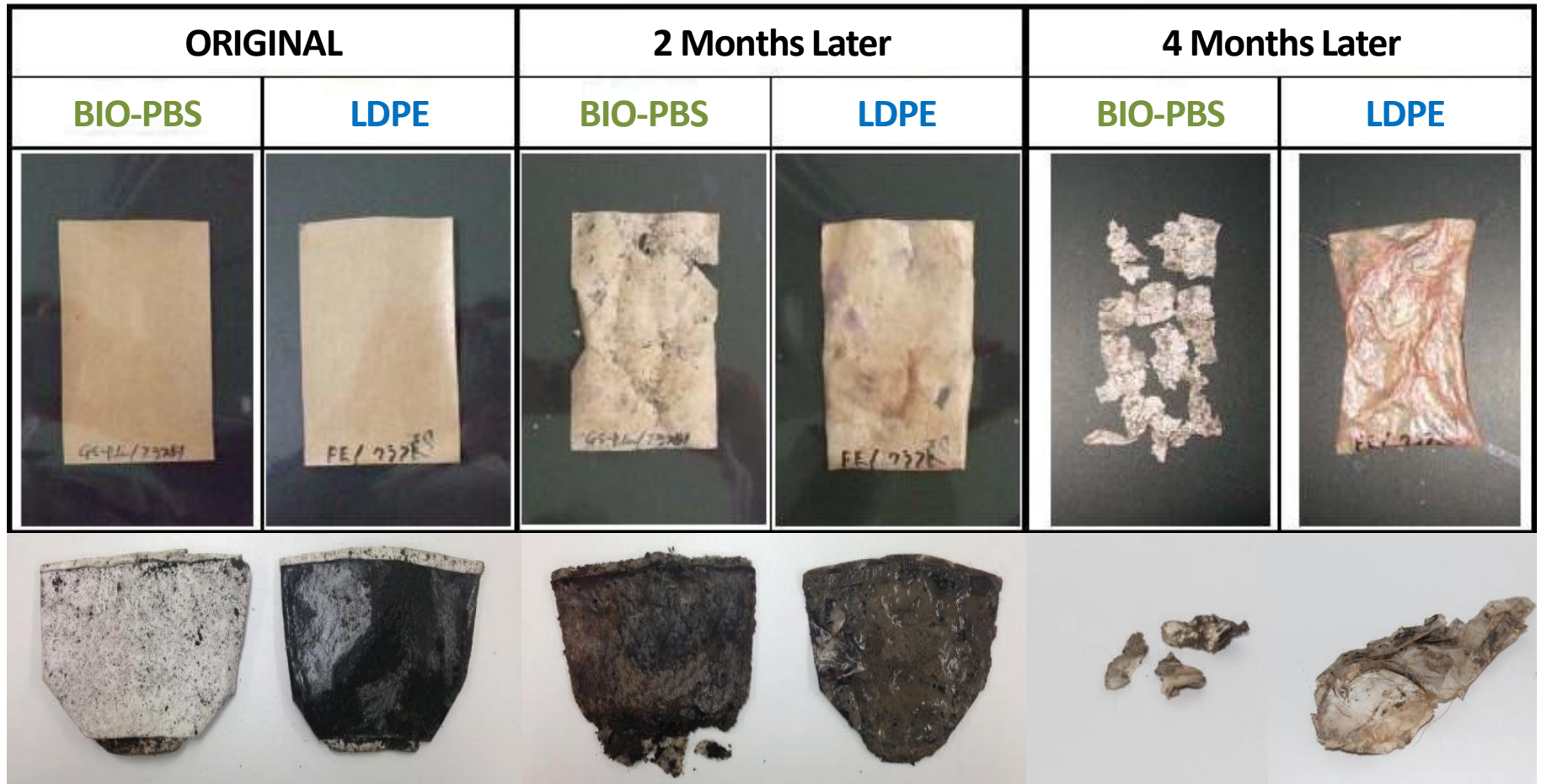
certified by the well-known
institute, Western Michigan
University (WMU) and certified
with 1-side and 2-side coated
recyclable through PTS
(Papierteschnische Stiftung).



Certified at WMU

BIO-PBS VS LDPE COMPARISON (LINED PAPER & CUP)

Buried in soil. No controlled conditions.
Temperature: 30°C Humidity: 50%





PRODUCTS DESIGNED TO MEET YOUR NEEDS

RETURN 
TO NATURE