

## Capventure

Capventure bv, Van Leijenberghlaan 199-E, 1082 GG Amsterdam, Netherlands  
tel. +31 20 644 65 53, info@capventure.com, www.capventure.com

VAT (BTW) NL8143.98.443.B01, Chamber of Commerce no. 34175003  
bank Netherlands: IBAN NL77 ABNA 0465 7820 19, BIC/SWIFT ABNANL2A



## FAQ. Bioplastic: PLA with plant fiber

### What exactly is PLA with plant fiber?

This is a technical story. PLA is a bioplastic. The basic material is sugar that is in plants. Consider a plant such as corn. The plant is fermented and distilled, producing lactic acid. This lactic acid is then refined, dried, polymerized under high temperature and thus changes into a polymer (type of plastic), called PLA (Poly Lactic Acid). Silicon (talcum powder) is added to this (5%) to make it more heat-resistant and a plant fiber (15%) as an extra organic material. The resulting granulate is then processed into an end product in the same way as other plastics.

### is PLA with plant fiber BPA free?

Yes, the product is BPA free and also contains no melamine or formaldehyde.

### Why should I choose this material? Does it benefit the environment?

It is biodegradable and made from plants and stone. Petroleum is not used to produce this bioplastic, as is the case with other plastics. Petroleum is becoming scarcer and causes a lot of environmental damage during extraction and processing. In addition, the CO2 emissions in the production of PLA are also much lower than for instance in Melamine or PET.

### Do the products have a coating?

PLA products do not need a coating.

### Is PLA with plant fiber food safe?

Our products have been extensively tested by an independent European institute and we have an "EU Food Safe Certificate" (Europe).

### Where do the ingredients of PLA with plant fiber ingredients come from?

The main component is PLA which is made from corn sugar. Our corn is gene unmodified. The added plant fibers are from bamboo plant, which is grown organically and therefore pesticide-free. The silicon is a natural rock / mineral that is mined.

### The product smells of wood, is this correct?

That is possible, especially in the beginning, plant fibers give off odor. This has no influence on quality or food safety.

### What colorings are used for the Zuperzozial PLA with plant fiber collection?

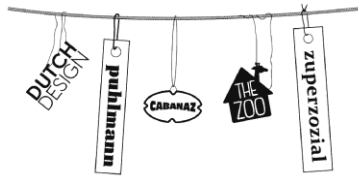
Zuperzozial uses regular artificial food-safe dyes. We have an "EU Food Safe Certificate" (Europe) and "FDA Food Safe Certificate (USA).

### What about the color fastness of the material?

With normal daily use, every product retains its color. But certain colors, such as red and pink hues, may decrease in strength in light sunlight (become faded) over time. We therefore advise you not to leave the Zuperzozial PLA with plant fiber in bright sunlight for a long time.

### Is PLA with plant fiber biodegradable?

The basic material is natural and can therefore degrade. Water and CO2 are released. The 5% silicon does not degrade and will be returned to the environment as silicon. We have therefore had the granulate tested and have a certification.



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### **How long does the degradation process take?**

With normal use, the product will not degrade. Only when it comes into contact with certain enzymes (for example, underground) does the degradation process begin. The temperature and the moisture content play a major role in this. The material is degradable under industrial conditions in 6 months. Under normal conditions, such as when buried in the backyard, the degradation process takes several years.

### **Is Zuperzozial PLA with plant fiber compostable?**

The GFT waste processing is set up in such a way that organic waste can only compost for a few weeks. The regulations for compost can differ per country. So there is no clear regulation. PLA with plant fiber is not compostable, because we are talking about a breakdown period of months.

### **Is Zuperzozial PLA with plant fiber recyclable?**

Because the material is still unknown in waste processing, it is not recycled. It still goes with the residual waste.

### **Is Zuperzozial PLA with plant fiber suitable for hot liquids?**

Certainly, the silicon that has been added makes the material suitable for temperatures up to and including 100 degrees Celsius. We have a food-grade certificate for this.

### **Is PLA unbreakable with plant fiber?**

Zuperzozial PLA with plant fiber products are not unbreakable. It will not shatter as much as glass or ceramics, but with a fall with a certain force, height and surface, a crack can form or break.

### **Does Zuperzozial PLA with plant fiber absorb coloring and / or flavoring (such as curry, tomato soup, coffee)?**

With normal use, no. Nevertheless, we recommend cleaning the product immediately after use with strong colors and flavors. If a coffee cup contains coffee deposits, it will disappear after a hot wash (dishwasher).

### **Can you put Zuperzozial PLA with plant fiber in the dishwasher?**

The product is approved for cleaning in the dishwasher. However, we recommend that you clean the product by hand and dry it off immediately to prevent deposits or staining.

### **Can you put Zuperzozial PLA with plant fiber in the Microwave?**

The product is not suitable to use for cooking, however to warming up food or beverage is no problem. Max 800 Watts for 3 minutes. Remove lids

### **Can you put Zuperzozial PLA with plant fiber in the Heating oven?**

No, the Zuperzozial PLA with plant fiber products can not be used in the oven, steam oven or grill.

### **What is the lifespan of Zuperzozial PLA with plant fiber?**

In normal use the product can be used for years and will not degrade under normal household conditions.