

SULAPAC STRAW 1.7 PRODUCT INFORMATION

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Version 009



Sulapac straw
Designed like nature.



A SUSTAINABLE ALTERNATIVE TO PLASTIC STRAWS

The bio-based¹ Sulapac straw is made of sustainably sourced raw materials². The main components of the straw are wood and bio-based binders. The wood comes from industrial side streams.

The sustainable straw comes with outstanding usability. It doesn't get soggy and can be used for up to 24 hours. The appearance is beautiful and unique. The straw complies with the requirements of the European food contact material legislation.

The Sulapac straw is designed to reduce plastic pollution. It is industrially compostable³ and doesn't leave any permanent microplastics behind⁴. It biodegrades into CO₂, water and biomass without having ecotoxic impacts on the environment⁵.

PARTNERING WITH THE BEST

The mass-producible Sulapac straw has been developed together with Stora Enso, a leading provider of renewable solutions in many countries (Nasdaq, €10bn revenue, 2017). The straw combines Sulapac's unique material recipe and technology with Stora Enso's experience in industrial operations and global market reach.

KEY FEATURES



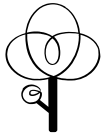
OUTSTANDING USABILITY

Doesn't get soggy. Can be used up to 24 hours.



UNIQUE LOOK AND FEEL

Beautiful natural appearance based on unique combination of raw materials.



BIO-BASED

Main components are wood and plant-based binders. The renewable material content is 69.4%.¹



SUSTAINABLY SOURCED

Made of responsibly sourced sustainable raw materials including wood from industrial side streams.²



INDUSTRIALLY COMPOSTABLE

Industrially compostable based on raw materials industrial compostability and field testing.³ The compostability has been tested and verified according to EN 13432. BPI certification in progress.



NO PERMANENT MICROPLASTICS

Circulates back to natural components – just like tree leaves.⁴ Can be digested by naturally occurring microorganisms.



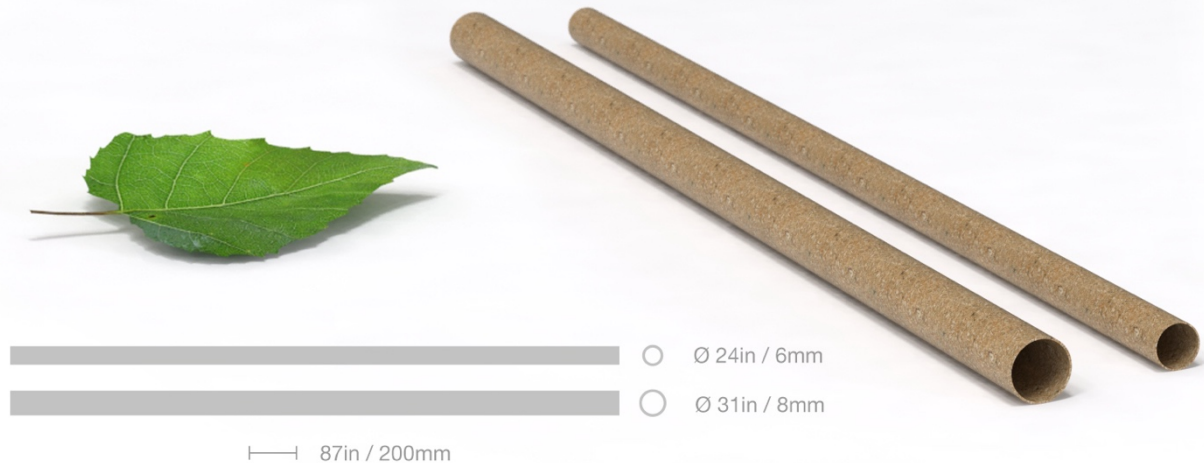
SAFE FOR PEOPLE AND PLANET

The straw material is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.⁵

For more information, visit: www.sulapac.com/straw

STRAW DIMENSIONS AND PACKAGE OPTIONS

The straws are available in two sizes with diameter of 0.24in/6mm and 0.31in/8mm and a length of 7.87in/200mm. The 0.24in/6mm straw is perfect for most drinks, whereas the 0.31in/8mm is great for thicker drinks like smoothies. Both sizes are available with or without paper wrapping.



As a standard delivery option, the straws are shipped in cardboard boxes of 2000-5000 straws. Inside the boxes the straws are packed in bags with 300-500 straws in each.

END OF LIFE AND RECYCLING

No straw is better than any straw. If you need to use one, choose the bio-based and compostable Sulapac straw. The Sulapac straw can be recycled via industrial composting³ which means that the straw would be disposed of as part of separately collected biowaste. The outcomes of industrial composting process are CO₂, water and nutrient rich compost, which can be used to enhance the quality of soil in agriculture, for example.

If recycling of the straw with biowaste is not possible, it can be disposed with mixed waste. Naturally occurring microorganisms can digest it into CO₂, water and biomass⁴. The material doesn't accumulate but circulates back to natural components – just like tree leaves. The straw material is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment⁵.

It must be noted that littering is never ok; always recycle or dispose the straw properly.

FOOD CONTACT

EU and FDA food contact requirements approved.



Migration tests specified in Commission Regulation (EU) No 10/2011 have been conducted to demonstrate the compliance of straw to be used with foodstuff. Sulapac straw is suitable for aqueous, acidic and alcoholic beverages and milk products for up to 24 hours at 104°F/40°C.

Furthermore:

- The straws are packed in cardboard boxes that are food contact approved.
- The straws contain no common food allergens.
- The straws are available also as single-packaged in paper wrapping (PEFC certified).
- The straw meets the criteria for GRAS status (including but not limited to a GRAS regulation or GRAS notice).
- The straw complies with European Commission regulation regarding organoleptic testing (taste, sight, smell, touch).

STORAGE AND TRANSPORTATION CONDITIONS

- It is recommended to store the straws in their closed, original packaging at temperatures below 113°F/45°C.
- Storage in direct sunlight or in rain should be avoided.
- Avoid storage in high humidity environment (>70%).
- Temperatures during transportation and storage may not exceed 140°F/60°C at any time.
- The shelf-life of the straws in room temperature (73°F/23°C) is 24 months.

1. USDA BioPreferred certification in progress. The current estimate of renewable material content is 69,4%. 2. Our wood originates from certified forests. We always follow our strict Policy for Sustainable Sourcing. 3. Industrially compostable based on raw materials industrial compostability and field testing. BPI certification in progress. The guidelines for sorting and collection of biowaste may differ regionally. Please, check the detailed recycling instructions with local recycling authority. 4. Made of wood chips and biopolymers. Biodegradation of 58% at 462 days in the marine environment (30°C / 86°F, ASTM D6691); 83% at 195 days in home compost (28°C / 82°F, ASTM D5988); 24% at 390 days in soil (25°C / 77°F, ASTM D5988). 5. The material is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Sulapac Ltd manufactures the above-named food contact materials from substances which comply with the EU and US FDA food contact requirements.

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