

# SULAPAC



## Sulapac® materials for cutlery



Sustainable. Beautiful. Functional.



### SULAPAC MATERIALS FOR CUTLERY

**UNIVERSAL:**  
Fully bio-based material with beautiful, natural appearance. Ideal for sturdy, premium cutlery.

 Flex 1.5%  
 Bio-based 100%





**UNIVERSAL FLEX 30:**  
Highly functional material optimized for fast processing. Ideal flexural strain (2.6%) and impact strength (12 kJ/m²).

 Flex 2.6%  
 Bio-based 79%





**UNIVERSAL HEAT 30:**  
Optimized for high heat resistance without additional processing or post treatment. Ideal flexural strain (2.9%) and impact strength (8-10 kJ/m²).

 Flex 2.9%  
 Bio-based 70%



**UNIVERSAL HEAT 35:**  
Optimized for high heat resistance without additional processing or post treatment. Ideal for sturdy, premium cutlery.

 Flex 1.5%  
 Bio-based 85%



Find the technical details on:  
[sulapac.com/cutlery](https://sulapac.com/cutlery)



## Safe for people and the planet

No permanent microplastics or toxic load<sup>7</sup>

Sulapac® is the leading eco-friendly material for reusable cutlery providing superior user experience and manufacturing excellence.

### SUPERIOR USER EXPERIENCE

- Strong and splinter-free
- Heat resistant options available<sup>1</sup>
- With natural look and feel

### EXCELLENT SUSTAINABILITY FEATURES

- Bio-based<sup>2</sup>
- Reusable<sup>3</sup>, compostable<sup>4</sup>, and recyclable by design<sup>5</sup>
- Low carbon footprint<sup>6</sup>

### EFFORTLESS MANUFACTURING

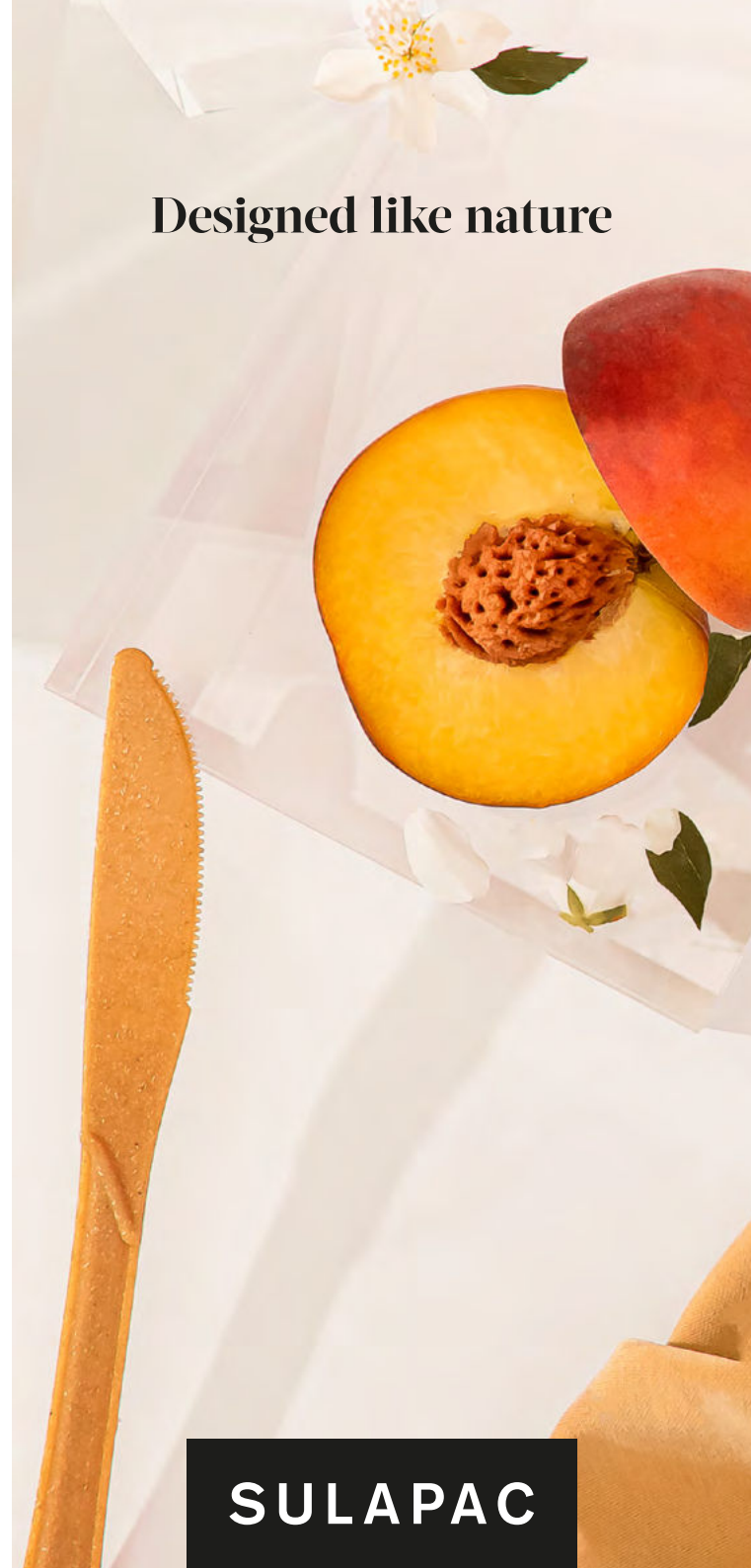
- Excellent processability
- Designed for existing converting machinery
- First-class technical support available

Please note that the material features may not be applicable to the final product as such. The manufacturer is responsible for the validity of the claims related to the final products made of Sulapac.

For relevant documentation and assistance with testing and validation, contact our experts:

[sulapac.com/contact](https://sulapac.com/contact)

## Designed like nature



# SULAPAC

## STAND OUT FROM THE COMPETITION WITH SULAPAC®

Sulapac makes your cutlery strong and sturdy and gives them a unique, natural look and feel – unlike most of the other bio-based alternatives.

Unlike wooden utensils, Sulapac adds no flavor to your food and has a nice smooth surface finish. Unlike PLA, Sulapac can provide great heat endurance<sup>1</sup>. Food contact compliant in EU and/or FDA, depending on material grade<sup>8</sup>.

Sulapac cutlery can be reused over and over again<sup>3</sup> with zero permanent microplastics or toxic load left behind<sup>7</sup>.

<sup>1</sup> Heat resistance properties depend on material grade and design & dimensions of the end product.

<sup>2</sup> Contains from 70% up to 100% USDA certified biobased content, depending on the material grade.

<sup>3</sup> Materials are suitable for repeated use as per European Commission regulation (EU) No 10/2011. Dishwashability tested according to EN 12875 standard with 20 washing cycles.

<sup>4</sup> The compostability of the material has been tested according to EN 13432 and ASTM D6400. BPI and Seedling certification status depending on the material grade.

<sup>5</sup> Mechanical recyclability demonstrated by independent third party. Universal and Universal Flex can also be recycled through hydrolysis back to monomers, suitable as feedstock for recycled biopolymers, as tested and proven technically feasible by a third-party industrial company. Field tests have also verified that Sulapac materials can be collected and sorted out of a mixed waste stream. The technology for chemical recycling of bio-based and biodegradable materials exists, but the infrastructure is still under development.

<sup>6</sup> 0,09 kg CO<sub>2</sub> eq/kg for Sulapac Universal (critically reviewed cradle-to-gate LCA, including biogenic carbon, performed by an independent third-party consultancy). Carbon footprint of polypropylene is typically around 1,6-1,9 kg CO<sub>2</sub> eq/kg.

<sup>7</sup> Ecotoxicity and threshold values for heavy metals tested according to EN 13432. Food contact compliant. Relative biodegradation of 57%-74% in 462 days in simulated marine environment test (ASTM D6691, 86°F / 30°C) using natural sea water. Not considered biodegradable in California.

<sup>8</sup> Restrictions and specifications of use apply, please refer to relevant Declaration of Compliance for further information.

## AL BAYADER'S ECO-FRIENDLY CUTLERY MADE OF SULAPAC®

Al Bayader, a leading manufacturer and supplier of food packaging solutions, chose Sulapac® material for their eco-friendly cutlery. The Fun Gaïa cutlery can be found in Carrefour, Waitrose, Spinneys, and Amazon in the United Arab Emirates.

Fine wood chips give Fun Gaïa cutlery a unique natural look. Furthermore, their usability is superior compared to other sustainable alternatives. Fun Gaïa cutlery is safe to use with all kinds of food items – and it is safe for the planet too. Fun Gaïa cutlery biodegrades without leaving permanent microplastics behind<sup>7</sup>, also if accidentally leaked to the environment.



## UNIQUE COMBINATION OF FEATURES

See how Sulapac materials perform in comparison with the main competitors.

	SULAPAC	Wooden	PLA	CPLA
<b>USER EXPERIENCE</b>				
Strong and splinter-free	● Yes	● Ok	● Ok	● Good
Cutting capability	● Good	● Poor	● Ok	● Good
Heat resistance	● Good	● Good	● Poor	● Good
Natural look & feel	● Yes	● Yes	● No	● No
<b>SUSTAINABILITY</b>				
Bio-based	● Yes	● Yes	● Yes	● Yes
Reusable	● Yes	● No	● Yes	● Yes
Recyclable	● Yes	● No	● Yes	● Yes
Industrially compostable	● Yes	● Yes	● Yes	● Typically thin objects only
Biodegradation in open environment	● Fast	● Like natural wood	● Slow	● Slow
<b>MANUFACTURING EXCELLENCE</b>				
Investment in new equipment	● Low	● High	● Low	● Medium
Mass production capability	● Good	● Good	● Ok	● Ok
Competitive price	● Yes	● Yes	● Yes	● No

Learn about the scientific background at: [sulapac.com/key-features/](https://sulapac.com/key-features/)

## ACCELERATING A PLASTIC WASTE-FREE FUTURE

Sulapac helps companies world-wide to replace conventional plastic with sustainable materials that are beautiful and functional. Like nature.

The switch from conventional plastic is easy to make: Sulapac materials fit existing production lines and have excellent processability. No extra steps needed in the converting process compared to conventional plastic.

Sulapac materials and products have already been adopted by numerous brands and converters in Europe, the US, Canada, and Asia. Join the forerunners and start building a cleaner future today!

## A TRULY SUSTAINABLE CHOICE

The bio-based<sup>2</sup> Sulapac materials are made with recycled content and are both recyclable by a design and industrially compostable<sup>4</sup>. Their carbon footprint is low<sup>6</sup>.

Sulapac® is safe for people and the planet: it biodegrades faster than its competitors and releases no permanent microplastic or toxic load during use nor end of life<sup>7</sup>, which makes Sulapac® the most sustainable biomaterial alternative in the reusable & single-use cutlery market today.

Switch to Sulapac® and start producing the most sustainable cutlery in the market with superior user experience and manufacturing excellence.

