



# DuraSense® Eco PP S30 Food

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**Description** DuraSense® consists of a wood-fiber reinforced biopolymer matrix. It contains a high amount of renewable material, giving it several notable advantages, such as:

- Reduced carbon emissions compared to conventional polymers
- Excellent tensile- and flexural properties
- Frequently reduced cycle time in injection moulding applications
- Unique tactile feeling and natural appearance. The material can also be colored

**Applications** This grade is designed for injection moulding. It's a well rounded general purpose grade with visual fibers that gives it a very natural look and a pleasant haptics.

- Cutlery
- Kitchen utensils
- Consumer goods
- Containers
- Appliances & components

**Certifications & compliance** Stora Enso's Hylte Biocomposites unit is fully certified in accordance with ISO 9001, OHSAS 18001, ISO 14001, ISO 50001, Chain of Custody, FSC and PEFC. Furthermore, this grade is compliant with below regulation(s) as amended. Please note that restrictions may apply, contact your sales representative for more information.

- EN 71-3, Safety for Toys
- EU Legislation 2023/2006
- ISCC Plus
- EU Legislation 1935/2004
- Plastic regulation EU/10/2011

**Environment** The product contains a high amount (>95%) of renewable raw materials. The material is fully recyclable, it is also suitable for energy recovery.

	Standard	S30 Food	Unit
<b>Typical properties</b>			
<b>Wood content (weight)</b>	-	30	%
<b>Density</b>	ISO 1183	1,01	g/cm <sup>3</sup>
<b>Tensile strength</b>	ISO 527-2/50	35	MPa
<b>Tensile modulus</b>	ISO 527-2/2	3600	MPa
<b>Flexural modulus</b>	ISO 178	3200	MPa
<b>Strain at break</b>	ISO 527-2/50	2,2	%
<b>Charpy impact strength, 23°C</b>	ISO 179/1eU	13	kJ/m <sup>2</sup>

**Storage** The product should be stored dry, in sealed containers, and be protected from direct sunlight. Moisture in contact with the material may lead to an inferior end product and impaired processability.

**Disclaimer** All information is based on Stora Enso's testing and experience and is accurate to the best of our knowledge at the date of publication. This document is designed to act as a help for safe and efficient processing of the material. Depending on use the properties achieved may differ from those stated and the information provided in this document does not serve as a guarantee or identification of quality.