

DuraSense® Eco100 S40 Food

Code: FA6001

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Description DuraSense® consists of a wood-fiber reinforced polymer matrix. It contains a high amount of renewable fibrous 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 has a very high renewable content (>95%) and is suitable for a wide range of applications where focus is high sustainability.

- Cutlery
- Toys
- Cutting boards
- Kitchen utensils
- Appliances & components

Certifications & compliance Stora Enso's Biocomposite 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 1935/2004
- EU Legislation 2023/2006
- Plastic regulation EU/10/2011

Environment The product contains a high amount of wood, a renewable resource. The material is recyclable and can also be used for energy recovery by incineration.

	Eco100 S40		
	Standard	Food	Unit
Typical properties			
Wood content (weight)	-	40	%
Density	ISO 1183	1,09	g/cm ³
Tensile strength	ISO 527-2/50	25	MPa
Tensile modulus	ISO 527-2/2	2300	MPa
Flexural modulus	ISO 178	2000	MPa
Strain at break	ISO 527-2/50	3,0	%
Charpy Impact strength, 23°C	ISO 179/1eU	21	kJ/m ²

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.