

DuraSense® 3D Eco PP 50



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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
- Unique tactile feeling and natural appearance. The material can also be colored

Applications This grade is designed for 3D printing. It comes in pellet form and can be printed with a minimum 4 mm nozzle.

- Furniture
- Household goods
- Windows
- Building

Certifications & compliance Stora Enso's Biocomposites unit is fully certified in accordance with ISO 9001, OHSAS 18001, ISO 14001, ISO 50001, Chain of Custody, FSC and PEFC. Certified according to ISCC. PlusFire certifications include EN 13501-1 class E, and EN 1021-1, EN 1021-2

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.

	Standard	3D Eco PP 50	Unit	
Typical properties	Wood content (weight)	-	50	%
	Density	ISO 1183	1,10	g/mm ³
	Tensile strength	ISO 527-2/50	30	MPa
	Tensile modulus	ISO 527-2/2	2700	MPa
	Flexural modulus	ISO 178	2800	MPa
	Strain at break	ISO 527-2/50	7,0	%
	Charpy impact strength, 23°C	ISO 179/1eU	26	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.