

DEISS



DEISS Bioline

Bio bags made of ecovio® material

Bioline from DEISS

Biodegradable garbage bags have now become a genuine alternative to conventional garbage bags in many areas of application. Mainly made from **renewable raw materials**, DEISS Bioline garbage bags considerably facilitate the collection of organic waste. Providing noticeably **greater wet strength and tear resistance** than previously, these bags simultaneously ensure faster total compostation. The entire Bioline product range is TÜV approved in accordance with EN standard 13432. And this new generation of bio bags is ideal not only for the disposal of organic waste.

Certified compostable bio bags that work.

DEISS Bioline products consist of ecovio®. Thanks to its structure, ecovio® can be fully biodegraded in industrial composting facilities by microorganisms and their enzymes. Standard EN 13432 on verifiable compostability states that at least 90 percent of the organic material should be converted within a specified time (6 months). Bio bags made of ecovio® biodegrade completely without releasing microplastics into

DEISS bio bags more than fulfil the specified requirements

the compost. Practical tests at various German composting facilities confirm that the period of biodegradability is significantly lower than that defined in EN 13432 (between 12 and 29 days).

Type of composting facility	Period spent under examination	% rate of biodegradability in relation to surface area	Remarks on the facilities examined
Herhof boxes	12 days	100%	Aeration with circulating air, good moisture distribution
Biodegma	21 days	50%	Carbon/nitrogen ratio of organic waste in the examined facility outside the specified range
Horstmann WTT	10 days	100%	Suction aeration, low air volume, high moisture content
Compost tumbler (similar to Envital)	15 days	> 90%	Intensive mechanical impact, high moisture content
Dynacomp (with wheel loader)	27 days	100%	Low aeration rate (in line with the oxygen requirement of the windrow)
Auger (similar to Dynacomp)	29 days	> 90%	Pressure aeration and addition of moisture as required
Trapezoid windrow unaerated, covered	28 days	100%	Adequate windrow height (2.8 m) ensures good aeration
Gore cover	28 days	100%	Carbon/nitrogen ratio of organic waste in the examined facility outside the specified range

Source: Stabile Tüten zur Sammlung von mehr Bioabfall; Ergebnis von acht Kompostanlagen. Müll und Abfall – Fachzeitschrift für Abfall und Ressourcenmanagement (trade journal for waste and resource management). Established 1969, May 2013

DEISS Bioline consists primarily of renewable raw materials.

For many of us, “bio” stands for the assurance that a product will not harm the environment. Bio bags from DEISS provide an opportunity to dispose of waste in a clean and environmentally friendly manner. Discerning consumers demand products made from renewable, environmentally sound raw materials. DEISS Bioline products

Renewable raw materials and residue-free compostability make this product a truly innovative highlight in the DEISS range.

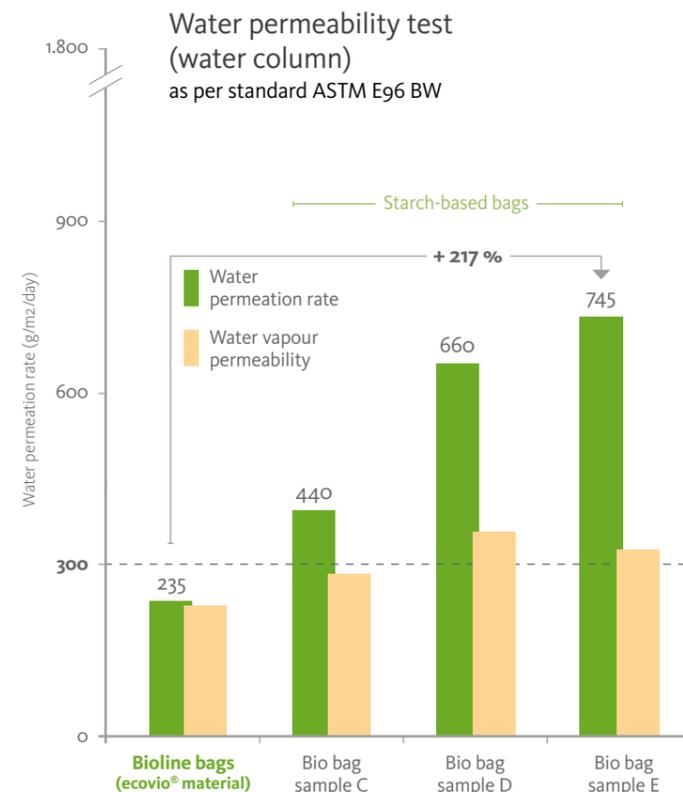
benefit from ecovio®. This material is composed of ecoflex®, a partially bio-based BASF polyester, and fully bio-based polylactic acid (PLA). The bio-based proportion in ecovio® bio bags can vary, but, in the case of DEISS Bioline bags, always exceeds 50 per cent. This level was investigated and confirmed by an independent testing institute (TÜV Rheinland).

DEISS Bioline bags wrap things up neatly!

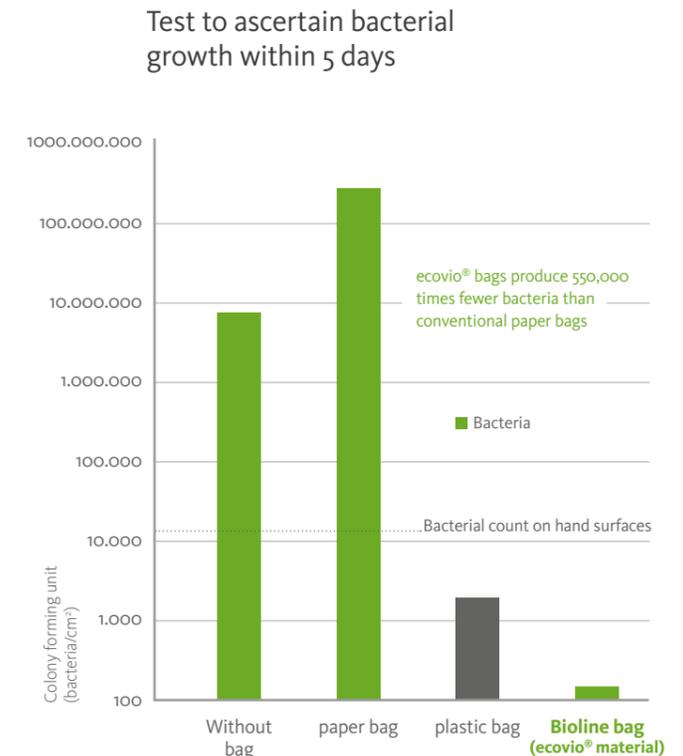
Thanks to their verified high water-column performance, DEISS bio bags provide an exceptional wet strength / moisture barrier. Liquid leakage, odours and bacteria are securely contained.

FEWER HARMFUL BACTERIA!

And ecovio® ensures that Bioline bio bags remain substantially drier than alternative bags. This reduces bacterial growth.



Source: BASF; Study on the moisture barrier of bio bags



Source: bifa environmental institute; Study on bacterial growth in organic waste

Microplastic stands no chance with DEISS Bioline!

Bio bags with ecovio® are not – as often suspected – oxodegradable plastics, i.e. rapidly disintegrating plastics which leave microscopically tiny residues in the environment. DEISS stands by ecovio®, the composition of which (ecoflex®+PLA) ensures complete biodegrad-

ability. On this basis, the microorganisms react in a similar way to macromolecules occurring in the environment or soil and convert ecovio® into biomass, water and carbon dioxide.



Biodegradable



No microplastics



Made from
renewable resources



Highly effective
moisture barrier



Bio bin liner

10 l		220 + 180 x 550 mm		20 pcs/roll		480 pcs/ctn.
20 l		430 x 500 mm		50 pcs/roll		500 pcs/ctn.
30 l		450 x 680 mm		10 pcs/roll		500 pcs/ctn.
30 l		500 x 600 mm		20 pcs/roll		500 pcs/ctn.
60 l		620 x 800 mm		10 pcs/roll		500 pcs/ctn.

Art no. 06065

Art no. 06028

Art no. 06030

Art no. 06066

Art no. 06080

Bio garbage bag

120 l		700 x 1100 mm		10 pcs/roll		250 pcs/ctn.
160 l		500 + 450 x 1100 mm		3 pcs/roll		90 pcs/ctn.
200 l		500 + 450 x 1250 mm		5 pcs/roll		100 pcs/ctn.
240 l		650 + 550 x 1350 mm		5 pcs/roll		100 pcs/ctn.

Art no. 06070

Art no. 06084

Art no. 06071

Art no. 06072



Platzhalter – bitte FSC-Logo ersetzen

DEISS

EMIL Deiss KG (GmbH + Co.)

Lademannbogen 65 | 22339 Hamburg, Germany
Phone +49 40 538096-0 | Fax: +49 40 538069-788
info@deiss.de | www.deiss.de

DEISS AG

Hirsrütiweg 810 | 4303 Kaiseraugst, Switzerland
Mobile +41 76 338 41 91 | Phone +49 40 538 096 732
info@deiss-ag.ch | www.deiss-ag.ch

EMIL Deiss GmbH

1. Molostraße, Objekt A 12 | 1110 Wien, Austria
Phone +43 1 6986208-0 | Fax: +43 1 6986208-44
info@deiss.at | www.deiss.at