



# Bolloré

## Sustainable development: a company strategy

The Bolloré group incessantly seeks to improve the quality of the products and services it offers. The group is committed to **reducing the environmental footprint** of its activities, while respecting the regulations and standards in force.

Pioneer in **ultrathin** packaging (ranging from 9 to 25 microns), the Plastic Films Division has always been focused on **resources savings** and **recyclability**.

- > **Longer footage** per roll means less machine stops and less transportation volume. Also, less packaging materials (boxes, cores, pallets) need to be used.
- > Shrinkage and seal occur at **low temperature**.
- > Our specific manufacturing process makes films in the Bolphane® range benefit from a **high resistance**, and thus allow for the substitution of thicker films.

**B-Nat**® is fully integrated in this process.



For information  
and samples:  
[www.bollorofilms.com](http://www.bollorofilms.com)  
[contact.packaging@bolloré-technologies.fr](mailto:contact.packaging@bolloré-technologies.fr)  
+33(0) 2 98 66 72 00

www.gedezalles.com Photos: I. Quégan, P. Léopold, Braskem, 123RF - REF: 2016-10-UK

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## B-Nat<sup>®</sup> Bio-based PE shrink film



Bolloré  
Ultrathin packaging

# B-Nat<sup>®</sup>

## A new generation of ultrathin shrinkfilm

Bolloré launches **B-Nat<sup>®</sup>**, the first ultrathin packaging shrink film developed from a base of green polyethylene.

**B-Nat<sup>®</sup>** consists for more than 40% of a polyethylene produced from sugarcane ethanol.



## A sustainable alternative to fossil raw materials

In the current global context of high fossil fuel dependency, and facing the depletion of the planet's resources, sugarcane derived ethylene is a **sustainable alternative**.

Natural resources are renewable. The green polyethylene resulting therefrom provides the **same performance** as a fossil polyethylene. At the end of its useful life, the **recycling properties** are **identical** to those of a petrochemical PE.

## Sugarcane for a lower environmental impact

Bolloré has chosen a green PE from Brazil-based supplier **Braskem**.

- > Sugarcane ethanol generates more units of renewable energy for each unit of fossil energy used in its production than corn ethanol and sugar beet ethanol.
- > Its cultivation does not occur on arable land and has no impact on food production areas.
- > Sugarcane is **water efficient** compared to other bio-based materials.

**B-Nat<sup>®</sup>** is developed to **minimise its environmental impact**.

# B-Nat<sup>®</sup>

## Exceptional characteristics

- > **B-Nat<sup>®</sup>** is developed to offer the **most attractive shelf presentation**. Therefore, its **optic properties** are optimised.
- > Its **cohesion strength** makes it a good candidate for **multipacking** applications.
- > The unique technical properties of **B-Nat<sup>®</sup>** ensure **excellent results**, from **manual** to **automatic high speed** machines.
- > **B-Nat<sup>®</sup>** is available in a thickness of 15µm, **flat** or **centerfolded**.
- > Information on **printed B-Nat<sup>®</sup>** can be obtained on simply request.

Properties	15 microns	
Gloss at 20°		114
Haze (%)		3
Free shrink (%)	at 93° C	30
	at 120° C	65
Seal strength (N/30 mm)	at 120° C	23
Roll length (m)	Singlewound	2 670
	Centerfolded	1 335
Inner core diameter (mm)		76,2
Outer roll diameter (mm)		245

