

BOLPHANE ³ PACKAGINGFILMS

RENEW
REDUCE
RECYCLE



**Ultra-thin packaging
shrink films**



based on
**bi-oriented polyethylene
(BO-PE)**



100% recyclable

BOLPHANE R³
PACKAGINGFILMS

Protect

Assemble

Value

Secure

Transport

BOLPHANE ^R₃

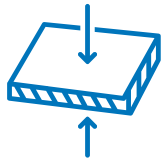
PACKAGINGFILMS

for **industry** and
consumer goods





The core of our strategy:



Ultra-thin films

Reducing thickness to allow **reduction at source** and “right” packaging.

Thinner, but equally **resistant** and **efficient**.



Multi-purpose films

Our Bolphane solutions adapt to **all your products**.

Complex shapes, **flexible** products, **slippery**...



Responsible films

100% of the R3 references are **recyclable**.

Some films also include **recycled** and **renewable** materials.

BOLPHANE ^{R3}

PACKAGINGFILMS

A **complete** and
innovative range

Responsible

			Bio based	-Ri	-RCB
B-NAT® O	Based on sugarcane ethanol	15 & 19 µm	✓		
B-NAT® F	Made with used cooking oil	15 µm	✓		
BRI	Based on regenerated material	13, 15, 19 & 25 µm		✓	

Ultrathin

BTT +90	Outstanding yield	9 µm			
BTTX 110	Impact strength	11 µm		✓	✓
BTT +125 *	High speed	12 µm			
BTTXF 130 *	Soft film	13 µm			✓

High performance

BY *	High performance multipurpose	15, 19 & 25 µm			
BRX *	Soft shrink - cross-linked	15 & 19 µm			✓
BZN	High toughness	15, 19 & 25 µm			✓
BRN	Soft shrink	15 µm			

Multi-purpose

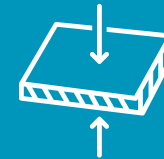
BE	Standard multipurpose	13, 15, 19 & 25 µm			
BX	Stiffness for high speed HFFS	10, 13, 15, 19 & 25 µm			✓

*: available in version "N" (without hot slip property)

A range tailored to your needs:



Responsible films



Ultra-thin films



High performance films



Multi-purpose films

New solutions to meet environmental challenges



Responsible films

-Ri

contain **post-industrial
regenerated material**

Valorisation and **reincorporation** of **our own
production waste**: raw material **traced &
controlled** for a film **suitable for food contact**

-RCB

contain **circular polymers** from an
advanced recycling process

Technology that **breaks down plastic waste** into its
basic chemical elements, before **repolymerizing** it into
raw materials of **quality** equivalent to virgin material

→ **mass balance** management, **ISCC+ certified**

BTTX 110-Ri

BRi

Versatile film with high
cohesion force



BTTX 110-RCB

BTTXF130-RCB

BZN-RCB

BX-RCB-S

BRX-RCB



Responsible films

Other options:

Use of materials from **renewable raw materials**

B-NAT[®] F

Made with used
cooking oil

15 µm

20% PE from used cooking oil:
ISCC+ certified
mass balance management

B-NAT[®] O

Based on sugarcane
ethanol

15 & 19 µm

+ 40% of a polyethylene produced from
sugarcane ethanol

Provide the **same performances** as
a fossil polyethylene

High cohesion strength

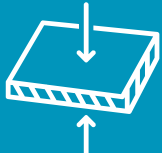
THE BIO-SOURCED:

Reduced carbon emissions
compared to virgin raw materials

Use of
renewable resources



Bolloré Packaging, pioneer in the **control of thicknesses**



Ultrathin films

BTT +90

BTT +125

High efficiency & fast cadence
9 & 12 μ m

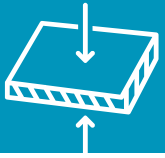
High shrinkage and **fast** sealing at **low temperature**

Hot slip properties

Increased rigidity, optimized for
high-speed machines

Improved optical quality

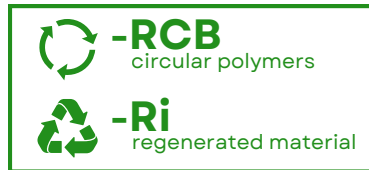




Ultrathin films

BTTX 110

Impact strength
11 µm



Very **wide** range of use

Same mechanical properties as a conventional film

high impact **strength**

Welding comfort

High cohesion strength



BTTXF 130

Soft film
13 µm



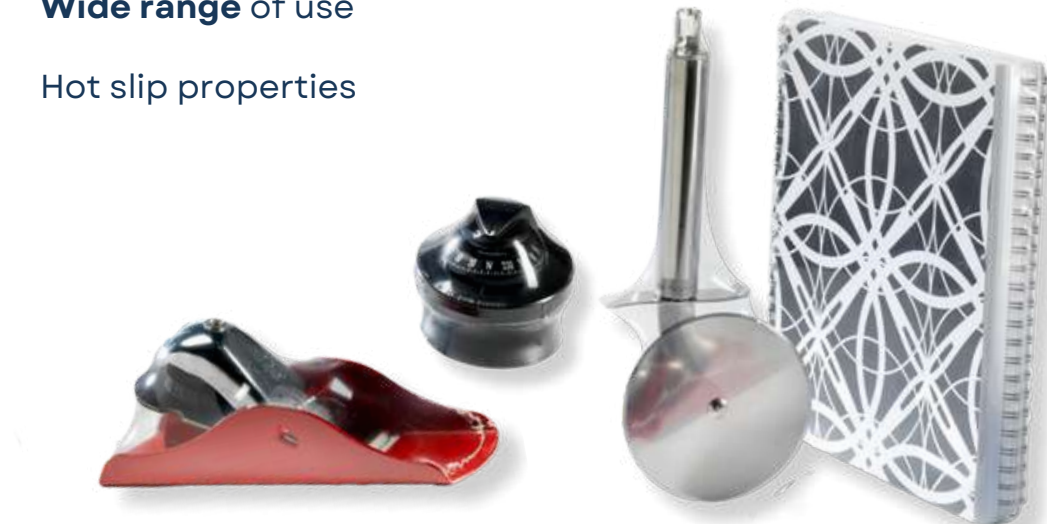
Controlled shrink force adapted to flexible products

High shrinkage rate at **low temperature** for irregularly shaped products

Superior elongation and tear **strength**

Wide range of use

Hot slip properties



A complete technological mastery



High performance films

BZN

High toughness

15, 19 & 25 µm

Exceptional impact **resistance**

High shrink force

Ease of use on packaging machines



BY

High performance multipurpose

15, 19 & 25 µm

Maximum retraction even at **low temperature**

Optimal **performance** and **productivity**

Hot slip properties after shrinkage





High performance films

BRX



Soft shrink - cross-linked

15 & 19 µm

Controlled retraction adapted to flexible and thin products

Cross-linked film (enhanced elasticity and strength)

Low temperature shrinkage and retraction

Ideal for **irregular and sharp products**



BRN

Soft shrink

15 µm

Controlled shrink force

Excellent machinability on **high speed** equipment

Suitable for **flexible** and **semi-rigid** products



An offer also focused on the **essentials**



Multi-purpose films

BE

Standard multipurpose

13, 15, 19 & 25 µm

Versatile film

Optimised pre-perforation for controlled shrinkage and **easier** set-up

High cohesion strength

Good **optical** properties

BX



Stiffness for high speed HFFS

10, 13, 15, 19 & 25 µm

High cohesion strength, ideal for **multipacking applications**

High **stiffness** for optimum machine performance

Specially designed to work with **ionisation sealing machines**

Outstanding **optics**



To the **Bolphane**® outstanding performance can be added **Bolloré's**
secured manufacturing and **quality** standards



CERTIFICATIONS

Bolloré films manufacturing site is certified
BRC (British Retail Consortium).



TRACEABILITY

In compliance with regulation 1935/2004/CE,
Bolloré ensures the traceability of materials
and articles at all stages, from production to
shipment.



FOOD CONTACT APPLIANCE

Bolloré films are allowed for food contact; they
are made with ingredients complying with
European regulations.

For your **printed film**
projects

→ contact us



Founded in 1822, the Bolloré Group is one of the world's 500 largest companies. He now holds strong positions in **communication**, **energy** and **industry**.

The **Innovative Thin Films** division is one of the world leaders in the ultra-thin shrink film sector.

The **Bolphane R3®** range is available on 5 continents and is represented by a committed team and a wide network of partners to guarantee you the best service.



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