

# **BOLPHANE<sup>R3</sup>**

**PACKAGING FILMS**

RENEW  
REDUCE  
RECYCLE



**Ultra-thin packaging**  
shrink films



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



**100% recyclable**

**BOLPHANE** R<sup>3</sup>  
PACKAGINGFILMS

**Protect**

**Assemble**

**Value**

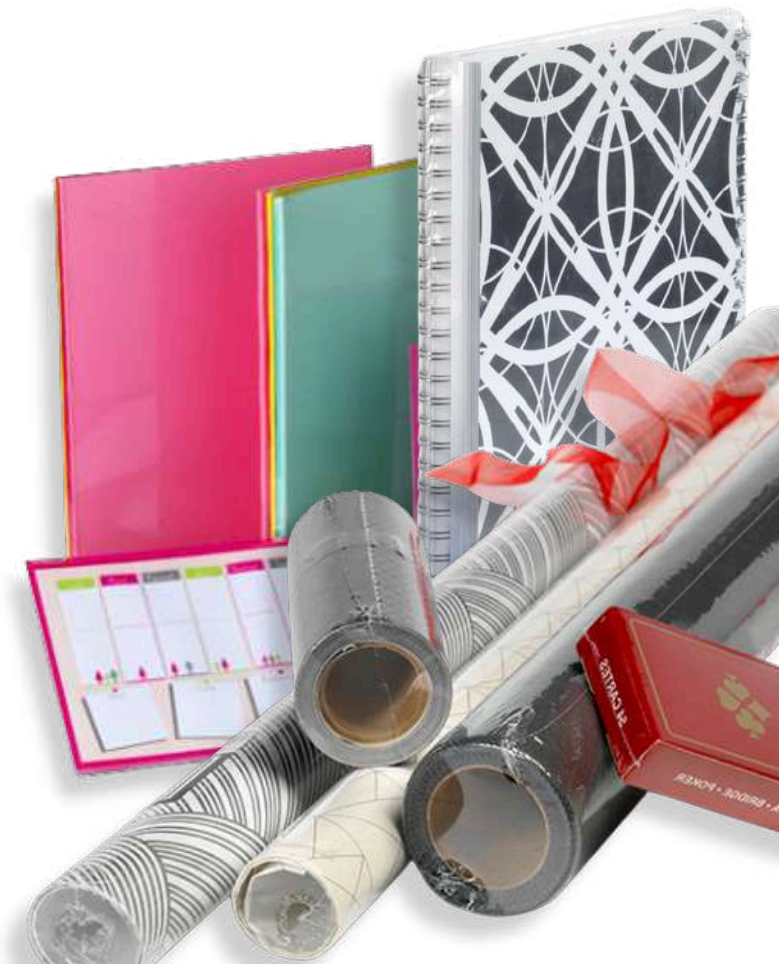
**Secure**

**Transport**

# **BOLPHANE** <sup>R3</sup>

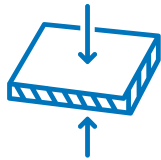
PACKAGINGFILMS

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 <sup>R3</sup>

## PACKAGINGFILMS

A **complete** and  
**innovative** range

### Responsible

			Bio based	-RI	-RCB
<b>B-NAT* O</b>	Based on sugarcane ethanol	15 & 19 µm	✓		
<b>B-NAT* F</b>	Made with used cooking oil	15 µm	✓		
<b>BRI</b>	Based on regenerated material	13, 15, 19 & 25 µm		✓	

### Ultrathin

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

### High performance

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

### Multi-purpose

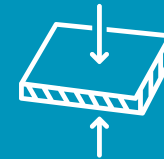
<b>BE</b>	Standard multipurpose	13, 15, 19 & 25 µm			
<b>BX</b>	Stiffness for high speed HFFS	10, 13, 15, 19 & 25 µm			✓

\*: 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**

**BZN-Ri**

**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<sup>®</sup> F**

Made with used  
cooking oil

15 µm

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

### **B-NAT<sup>®</sup> 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

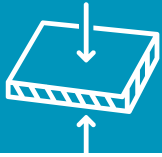
## **THE BIO-SOURCED:**

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  $\mu$ m

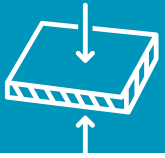
**High shrinkage** and **fast** sealing at **low temperature**

Hot slip properties

**Increased rigidity**, optimized for  
**high-speed machines**

Improved optical quality

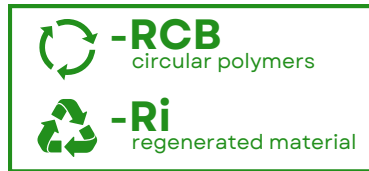




## Ultrathin films

### 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



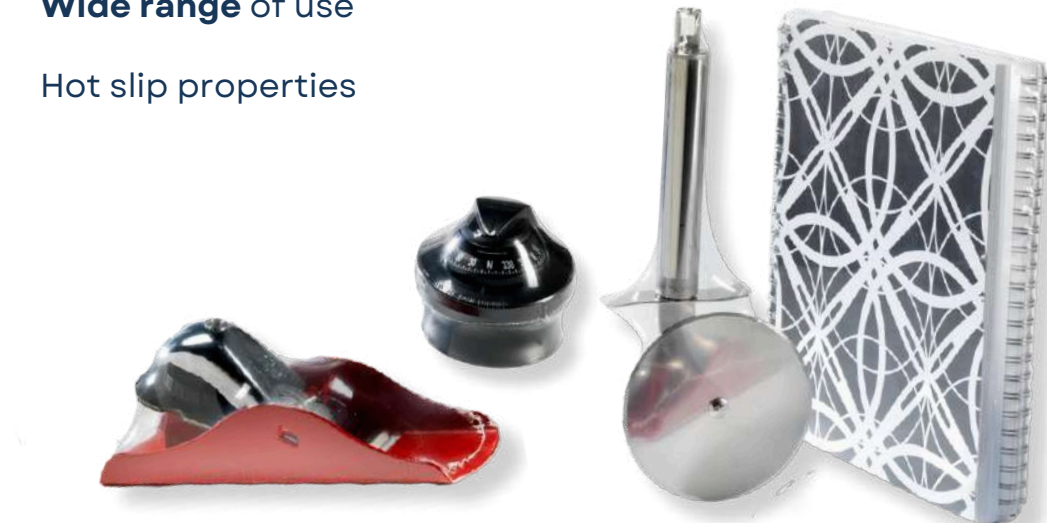
**Controlled shrink force** adapted to flexible products

**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

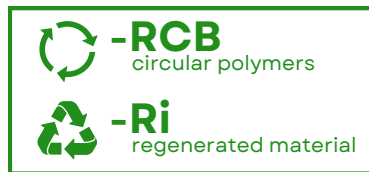


### High performance films

#### 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**<sup>®</sup> outstanding performance can be added **Bolloré's**  
**secured** manufacturing and **quality** standards

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#### CERTIFICATIONS

Bolloré films manufacturing site is certified to both **ISO 22000** and **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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