



BOLPHANE R³

**RENEW
REDUCE
RECYCLE**

BRI

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) and recycled raw material

- Versatility
- High cohesion strength
- Extremely thin, thus contributing to resource savings
- Recyclable
- Perfectly adapted for the packaging of industrial and consumer goods



The originality of BRI :

- Contains 30% of post-industrial regenerated raw material
- Contributes to carbon sequestration through participation in a carbon-sink forestry project

Disposal

Options for disposal are **recycling** (compatible with SPI code 4/PE-LD), incineration with energy recovery and landfill. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial and local regulations.

Food contact

Complies with EU and US regulations on food contact materials.

See the « Declaration of Conformity » of concerned film reference for details.

Film storage

The maximum temperature for storage is 32° C, with a maximum of 80% RH, up to one year.

BOLLORE
INNOVATIVE
PACKAGING SHRINK FILMS

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BRI Technical Specifications

Technical properties	Test unit	Test Method	Values			
Reference			BRI 13		BRI 15	
Presentation						
Grade			13	15		
Roll Length - singlewound (S)	m		3 100	2 670		
Roll Length - centerfolded (C)	m		1 550	1 335		
Width - singlewound (S)	mm		<u>mini</u> : 150 - <u>maxi</u> : 1 400 - <u>increment</u> : 5			
Width - centerfolded (C)	mm		<u>mini</u> : 150 - <u>maxi</u> : 1 000 - <u>increment</u> : 50			
Friction coefficients (film to film)						
Static		ASTM D1894	0.37	0.37		
Dynamic		ASTM D1894	0.18	0.18		
Optical properties						
Haze	%	ASTM D1003-A	5	5		
Gloss at 20°		ASTM D2457	90	87		
Shrinkage properties						
			LD*	TD*	LD*	TD*
Free shrink at 93°	%	ASTM D2732	17	17	16	22
Free shrink at 120°	%	ASTM D2732	59	58	60	60
Shrink force	kg/cm ²	NFT 54-125	27	28	30	31
Mechanical properties						
			LD*	TD*	LD*	TD*
Stiffness modulus	Mpa	ASTM D882	650	750	700	750
Elongation at break	%	ASTM D882	67	90	85	100
Tensile strength	Kg/cm ²	ASTM D882	1 000	1 000	1 000	1 100
Barrier properties						
Water vapour transmission rate	g/m ² /24h 38°C, 95% RH	ASTM E96	21		19	
Oxygen transmission rate	cm ³ /m ² /24h 23°C, 0% RH	ASTM D3985	9 400		8 000	

* LD = Longitudinal Direction

* TD = Transversal Direction

Pre-perforation is standard on the centerfolded version (BRI HC).



Les caractéristiques et valeurs des produits définis par ce document sont des valeurs indicatives. Elles constituent les meilleures informations qui nous sont disponibles et nous les estimons fiables. Il appartient à l'utilisateur de vérifier leur adéquation aux diverses applications car les performances peuvent varier sensiblement selon les procédés de mise en œuvre. Sauf indication explicite, Bolloré se réserve le droit de modifier à tout instant la définition et les propriétés de ses produits.