



BOLPHANE R³

**RENEW
REDUCE
RECYCLE**

BRX

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) crosslinked soft shrink

- Low shrink force eliminates distortion on thin products
- Cross-linked for strength and toughness
- Broad operating window on most sealing equipments
- Ideal on odd-shaped or sharp products

BRX is a multilayer, cross-linked shrink film, soft enough to wrap products that easily distort, but tough enough for irregularly shaped items. Low temperature properties also protect heat-sensitive products.

Applications include printed and converted paper products, items packed in lightweight trays and boxes and softer products. The high free shrink in **BRX** allows packaging of irregularly shaped items, and produces the highest quality package aesthetics for shelf appeal.



The unique thermal properties of **BRX** allow for sealing and shrinking at lower temperatures than competitive shrink films. This means that wrapping with **BRX** results in greater impact resistance and product protection during shipping and on retail display.

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.



BRX Technical Specifications

Technical properties	Test unit	Test method	Values			
Reference			BRX15		BRX19	
Presentation						
Grade			15		19	
Roll Length- Singlewound (S)	m		2 670		2 140	
Roll Length- Centerfolded (C)	m		1 335		1 070	
Width - singlewound (S)	mm	mini : 150 - maxi : 1400 - increment : 5				
Width - centerfolded (C)	mm	mini : 150 - maxi : 1000 - increment : 50				
Friction coefficients (film to film)						
Static		ASTM D1894	0.30		0.30	
Dynamic		ASTM D1894	0.15		0.15	
Optical properties						
Haze	%	ASTM D1003-A	4.0		4.0	
Gloss at 20°		ASTM D2457	115		115	
Shrinkage properties			LD*	TD*	LD*	TD*
Free shrink at 93°	%	ASTM D2732	25	27	22	25
Free shrink at 120°	%	ASTM D2732	79	76	78	77
Shrink force	Kg/cm²	NFT 54-125	22	22	20	20
Mechanical properties			LD*	TD*	LD*	TD*
Stiffness modulus	Mpa	ASTM D882	200	230	180	200
Elongation at break	%	ASTM D882	120	120	140	140
Tensile strength	Kg/cm²	ASTM D882	1 000	1 000	1 000	1 000
Barrier properties						
Water vapor transmission rate	g/m²/24h 38°C, 95% RH	ASTM E96	21		18	
Oxygen transmission rate	cm³/m²/24h 23°C, 0% RH	ASTM D3985	16 000		14 000	

* LD = Longitudinal Direction
* TD = Transversal Direction

Characteristics are those of a non-perforated film

The option pre-perforation (BRX H) is available upon request.



The technical features of the products defined herein are given as typical values. They are the best information available to us and we believe them to be reliable. Users have to check-up that they are suitable with all the applications as performance may vary with processing conditions. Unless previous warning, BOLLORE has the right to change at any time the definition and technical features of its products.