



BOLPHANE R³

**RENEW
REDUCE
RECYCLE**

BX

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) with stiffness for high speed HFFS

- High cohesion strength, ideal for multipacking applications
- High stiffness for optimum machine performance
- Specially designed to work with ionisation sealing machines
- Outstanding optics



BX is the standard multipurpose film for a broad spectrum of end-users requiring a singlewound film. Its rigidity combined with cohesion strength make **BX** ideal for multipacking applications that require gloss and clarity.

Versatile as a BY film, BX offers higher tensile strength at equivalent thickness.

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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BX Technical Specifications

Technical properties	Test unit	Test Method	Values							
References			BX13	BX15	BX19	BX25				
Presentation										
Grade			13	15	19	25				
Roll Length singlewound film (S)	m		3 100	2 670	2 140	1 600				
Width - singlewound (S)	mm		mini : 150 - maxi : 1 400 - increment : 5							
Friction coefficients (film to film)										
Static		ASTMD1894	0.35	0.35	0.35	0.35				
Dynamic		ASTMD1894	0.27	0.27	0.27	0.27				
Optical properties										
Haze	%	ASTMD1003-A	3	3	3.0	3.3				
Gloss at 20°		ASTMD2457	120	120	120	120				
Shrinkage properties										
			LD*	TD*	LD*	TD*	LD*	TD*	LD*	TD*
Free shrink at 93°	%	ASTMD2732	17	23	17	23	15	20	13	20
Free shrink at 120°	%	ASTMD2732	61	62	57	61	54	59	50	50
Shrink force	Kg/cm ²	NFT 54-125	26	32	27	35	20	31	24	35
Mechanical properties										
			LD*	TD*	LD*	TD*	LD*	TD*	LD*	TD*
Stiffness modulus	Mpa	ASTMD882	590	690	590	690	590	690	590	690
Elongation at break	%	ASTMD882	97	95	97	100	105	100	110	100
Tensile strength	Kg/cm ²	ASTMD882	1 400	1 400	1 400	1 400	1 300	1 300	1 300	1 300
Barrier properties										
Water vapor transmission rate	g/m ² /24h 38°C, 95% HR	ASTM E96	21	19	16	12				
Oxygen transmission rate	cm ³ /m ² /24h 23°C, 0% HR	ASTMD3985	9 400	8 000	7 100	5 400				

* LD = Longitudinal Direction
* TD = Transversal Direction

Characteristics are those of a non-perforated film.



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, BOLLORÉ has the right to change at any time the definition and technical features of its products.