



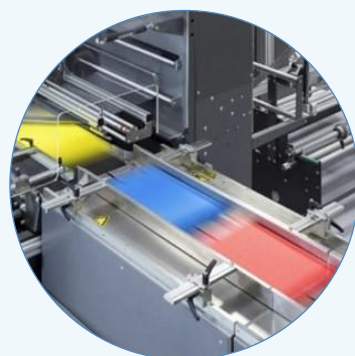
BOLPHANE R³

**RENEW
REDUCE
RECYCLE**

BE

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) standard multipurpose

- Versatility
- Optimised pre-perforation for controlled shrinkage and easier set-up
- High cohesion strength
- Good optical properties



BE is a standard film that covers a broad spectrum of end-uses where a centerfolded film is required.

Its cohesion strength makes it a good candidate for multipacking applications.

The optimised pre-perforation facilitates the shrinking phase and makes set-up easier.

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.



BE

Technical Specifications

Technical properties	Test unit	Test Method	Values							
References			BE13C	BE15C	BE19C	BE25C				
Presentation										
Grade			13	15	19	25				
Roll Length - centerfolded (C)	m		1 550	1 335	1 070	800				
Width - centerfolded (C)	mm		mini : 150 - maxi : 700 - increment : 50							
Friction coefficients (film to film)										
Static		ASTM D1894	0.32	0.35	0.35	0.32				
Dynamic		ASTM D1894	0.23	0.25	0.27	0.23				
Optical properties										
Haze	%	ASTM D1003-A	4	4	4.2	4.2				
Gloss at 20°		ASTM D2457	100	100	100	100				
Shrinkage properties			LD*	TD*	LD*	TD*	LD*	TD*	LD*	TD*
Free shrink at 93°	%	ASTM D2732	17	23	17	23	15	21	12	20
Free shrink at 120°	%	ASTM D2732	60	59	58	59	54	59	50	50
Shrink force	Kg/cm²	NFT 54-125	26	32	27	35	20	31	24	35
Mechanical properties			LD*	TD*	LD*	TD*	LD*	TD*	LD*	TD*
Stiffness modulus	Mpa	ASTM D882	590	690	590	690	590	690	590	690
Elongation at break	%	ASTM D882	90	100	90	100	100	100	105	100
Tensile strength	Kg/cm²	ASTM D882	1 400	1 400	1 400	1 400	1 300	1 300	1 300	1 300
Barrier properties										
Water vapour transmission rate	g/m²/24h 38°C, 95% RH	ASTM E96	21		19		16		12	
Oxygen transmission rate	cm³/m²/24h 23°C, 0% RH	ASTM D3985	9 400		8 000		7 100		5 400	

* LD = Longitudinal Direction
TD = Transversal Direction

Characteristics are those of a non-perforated film.

BE is pre-perforated in its standard version and only available centerfolded (BE C).



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.