



BOLPHANE R³

**RENEW
REDUCE
RECYCLE**

JB[°]CF

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) dedicated to basic needs

- Economic
- Multi-purpose
- Good optics value
- Adequate for multi-packing



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.

JB[°]CF Technical Specifications

Technical properties	Test unit	Test method	Values					
			JB12	JB15	JB19			
Reference			JB12	JB15	JB19			
Presentation								
Grade			12	15	19			
Roll Length- Centerfolded	m		1 667	1 250	1 000			
Width - Centerfolded (C)	mm		<u>mini</u> : 150 - <u>maxi</u> : 950 - <u>increment</u> : 50					
Friction coefficients (film to film)								
Static		ASTM D1894	0.35	0.35	0.35			
Dynamic		ASTM D1894	0.20	0.20	0.20			
Optical properties								
Haze	%	ASTM D1003-A	3.3	3.5	4			
Gloss at 20°		ASTM D2457	100	100	100			
Shrinkage properties								
			LD*	TD*	LD*	TD*		
Free shrink at 93°	%	ASTM D2732	13	17	13	15	12	15
Free shrink at 120°	%	ASTM D2732	68	66	64	65	60	62
Mechanical properties								
			LD*	TD*	LD*	TD*	LD*	TD*
Elongation at break	%	ASTM D882	100	100	100	100	100	100
Tensile strength	Kg/cm ²	ASTM D882	1 000	1 000	1 000	1 000	1 000	1 000
Barrier properties								
Water vapor transmission rate	g/m ² /24h 38°C, 95% HR	ASTM E96	45	39	27			
Oxygen transmission rate	cm ³ /m ² /24h 23°C, 0% HR	ASTM D3985	11 300	10 800	7 150			

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