

## BOLPHANE (?)

RENEW REDUCE RECYCLE

**BTTX** 110

Ultrathin display shrinkfilm on the basis of bi-oriented polyethylene (BO-PE) impact strength

- Broad operating window allowing use on a wide range of equipment
- Same mechanical properties as a conventional 15µm film
- Superior impact strength
- High seal strength
- Excellent cohesion strength

**BTTX 110** benefits from a crosslinking process specific to Bolloré and is formulated with high-tech resins. Thickness can thus be reduced while qualitative mechanical properties are preserved.

The result is a film of great adaptability, suitable to a wide range of product applications.





### **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.













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# BTTX 110 Technical Specifications

Technical properties	Test unit	Test Method	Values	
Reference			BTTX110	
Presentation				
Grade			110	
Roll Length- Singlewound	m		4 000	
Roll Length- Centerfolded	m		2 000	
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> :	900 - <u>increment</u> : 50	
Friction coefficients ( film to f	ilm)			
Static		ASTM D1894	0.25	
Dynamic		ASTM D1894	0.16	
Optical properties			1	
Haze	%	ASTM D1003-A	3.5	
Gloss at 20°		ASTM D2457	115	
Shrinkage properties			LD*	TD*
Free shrink at 93°	%	ASTM D2732	15	15
Free shrink at 120°	%	ASTM D2732	73	73
Shrink force	kg/cm²	NFT 54-125	26	31
Mechanical properties			LD*	TD*
Stiffness modulus	Мра	ASTM D882	400	400
Elongation at break	%	ASTM D882	110	120
Tensile strength	Kg/cm²	ASTM D882	1 400	1 500
Barrier properties				
Water vapor transmission rate	g/m²/24h 38°C, 95% HR	ASTM E96	29	
Oxygen transmission rate	cm <sup>3</sup> /m <sup>2</sup> /24h 23°C, 0% HR	ASTM D3985	17 500	
LD = Longitudinal Direction	Characteris	tics are those of	a non-neri	forated fi

<sup>\*</sup> LD = Longitudinal Direction

Characteristics are those of a non-perforated film.

BTTX 110 is pre-perforated in the centerfolded version (BTTX 110 HC).





<sup>\*</sup> TD = Transversal Direction