BOLPHANE R3

RENEW
REDUCE
RECYCLE

BRN

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

- Controlled shrinkage
- Excellent machinability on high speed equipment

BRN is especially designed for soft and flexible items usually seen in stationery, textile and paper products.

In high speed processing conditions, **BRN** reveals itself in terms of high output performances on applications that require low shrink.

Compared to a typical shrinkfilm, BRN keeps shrink forces under control within a large temperature range.

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.

04 PE-LD

BRCGS Packaging Materials CERTIFICATED

afaq ISO 22000 Sécurité des aliments AFNOR CERTIFICATION

BOLLORÉ
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BRN Technical Specifications

Technical properties	Test unit	Test Method	Values	
Reference			**BRN15**	
Presentation				
Grade			15	
Roll Length- Singlewound (S)	m		2 670	
Roll Length- Centerfolded (C)	m		1 335	
Width - singlewound (S)	mm	mini : 150 - maxi : 1 400 - increment : 5		
Width - centerfolded (C)	mm	mini : 150 - maxi : 850 - increment : 50		
Friction coefficients (film to film)				
Static		ASTM D1894	0.20	
Dynamic		ASTM D1894	0.14	
Optical properties				
Haze	%	ASTM D1003-A	3.5	
Gloss at 20°		ASTM D2457	98	
Shrinkage properties			**LD***	**TD***
Free shrink at 93°	%	ASTM D2732	25	30
Free shrink at 120°	%	ASTM D2732	60	60
Shrink force	kg/cm²	NFT 54-125	10	10
Mechanical properties			**LD***	**TD***
Stiffness modulus	Mpa	ASTM D882	210	230
Elongation at break	%	ASTM D882	110	100
Tensile strength	Kg/cm²	ASTM D882	470	430
Barrier properties				
Water vapor transmission rate	g/m²/24h 38°C, 95% HR	ASTM E96	65	
Oxygen transmission rate	$cm^3/m^2/24h$ 23°C, 0% HR	ASTM D3985	17 500	

* LD = Longitudinal Direction
* TD = Transversal Direction

Characteristics are those of a non-perforated film

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