

# Exlfilm fresh™ BF

*Hot Needle Micro-Perforated*



Exlfilm fresh®BF was engineered for high speed packaging machines that use single wound film.

This high performance shrink film is ideal for the bakery industry. Being microperforated assures your product, the perfect gas exchange for desired quality.

The different patterns allow adjust to the need of each product.

- Excellent optics.
- Stiffness for high speed performance.
- Good heat-sealing characteristics.
- Reduces downtime.
- High speed performance.
- Hot needle micro-perforated.
- Complies with standards for direct food contact.



**Fibope**  
PORTUGUESA

 intertape polymer group™

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Portugal

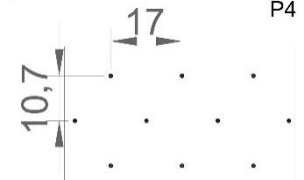
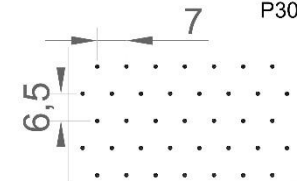
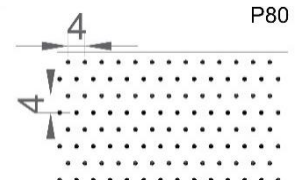
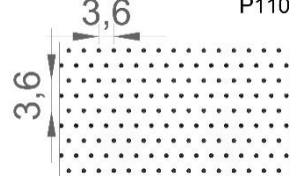
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Thickness [μm]	Length [m]		Width [mm]
	Flat		Flat
12,5	6.000	3.000	From 200 up to 1200 width increments of 10mm
15	5.000	2.500	

Cardboard core internal 76,6mm  
Other specifications available upon request

Properties	Test Method	Thickness (μm)		
		12,5	15	
Yield (m <sup>2</sup> /kg)	-	88,8	74,0	
Unit Weight (g/m <sup>2</sup> )	-	11,2	13,5	
Heat Shrinkage (%)	MD	60 °C, air and 5 min MIE 002	3	
	TD		5	
	MD	90 °C, air and 5 min MIE 002	5	
	TD		12	
	MD	120°C, air and 5 min MIE 002	11	
	TD		20	
Tensile Strength (MPa)	MD	ASTM D882	170	
	TD		175	
Elongation at Break (%)	MD		125	
	TD		110	
Haze (%)	ASTM D 1003		2,3	2,6
Gloss at 20° (%)	ASTM D 2457		100	
Coefficient of friction	ASTM D 1894	0,52		

### Micro perforation patterns

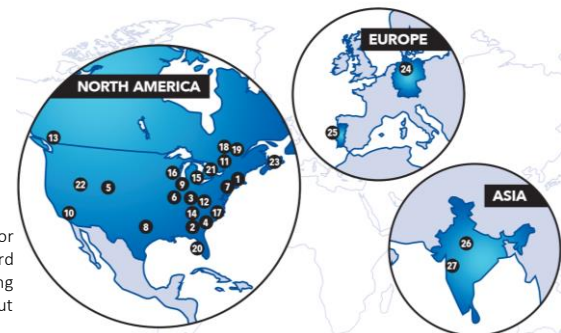
Perforation	Pin/cm <sup>2</sup>	Pattern
P4	3,5	
P30	4,65	
P80	12	
P110	17	

Note: These values are typical and not intended as limiting specifications. These properties are characteristics measured before microperforated.  
Storage time should not exceed 12 months. The maximum storage temperature for optimum performance is 35°C.



Fibope comply with the requirements and regulations which state that materials may be used in food contact applications. For more information contact our technical support team.

While we believe them to be reliable the statements and information herein are only for general guidance and are not warranties or guarantees for accuracy and completeness. The use must, by test or otherwise, determine suitability for this purpose. Our standard term and conditions of sale apply exclusively to all orders, and all liability for damages of any kind, including consequential exceeding purchase price is excluded. No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.



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FIBOPE PORTUGUESA – FILMES BIORIENTADOS, SA is an industrial company dedicated to the production of flexible films for packaging, integrated in the group "Intertape Polymer, Inc.", of Canada. We produce films based on polyolefins, bi-oriented and co-extruded (polyolefin shrink film) in multi-layers. Being a modern unit based on a favorable costs structure and advanced production techniques, it is able to meet the needs of its customers.

FIBOPE practices a continuous policy of quality and development of its capacities to satisfy the requirements of the customers regarding the products and services it offers, being certified since 2001, according to NP EN ISO 9001: 2008 and from 2013 according to the BRC / IOP reference Packaging.

The quality of the products Exfilm®, Exfilmplus® and Exfilmfresh® is constantly tested in our laboratory, equipped with highly sophisticated equipment and qualified technicians, allowing to guarantee quality and consistency.

The main applications are directed to the packaging of food products, cosmetics, paper and display market in general. The concept of total compliance with our customers guides daily activities and differentiates FIBOPE from competitors.