

Exfilm fresh™ BC

Hot Needle Micro-Perforated



Exfilm fresh®BC is a centerfolded micro-perforated film with high shrink ratio is ideal for automatic packaging lines.

The different microperforated patterns, assures your product the perfect gas exchange for desired quality.

This high performance shrink film is ideal for the bakery industry.

- Excellent optics.
- Good sealing characteristics.
- High shrink ratio.
- Reduces downtime.
- Hot needle micro-perforated.
- Complies with standards for direct food contact.



Fibope
PORTUGUESA

ipg intertape polymer group™

Estrada da Praia, nº 1087
4740 – 696 Barqueiros BCL
Portugal

Tel: +351 253 859 270
Email: fibope@fibope.pt

| Thickness [µm] | Length [m] | | Width [mm] |
|----------------|--------------|-------|---|
| | Centerfolded | | Centerfolded |
| 12,5 | 3.000 | 1.500 | From 2 x 150 up to 2 x 970 width increments of 50mm |
| 15 | 2.500 | 1.250 | |
| 19 | 2.000 | 1.000 | |

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

| Properties | Test Method | Thickness (µm) | | |
|---------------------------------|-------------|-------------------------------|------|------|
| | | 12,5 | 15 | 19 |
| Yield (m ² /kg) | - | 86,9 | 72,5 | 57,2 |
| Unit Weight (g/m ²) | - | 11,5 | 13,8 | 17,5 |
| Heat Shrinkage (%) | MD | 60 °C, air, 5 min MIE 002 | 2 | |
| | TD | | 2 | |
| | MD | 90 °C, air, 5 min MIE 002 | 10 | |
| | TD | | 17 | |
| | MD | 120 °C, air, 5 min MIE 002 | 51 | |
| | TD | | 57 | |
| Tensile Strength (MPa) | MD | ASTM D882 | 100 | |
| | TD | | 100 | |
| Elongation at Break (%) | MD | | 110 | |
| | TD | | 125 | |
| Haze (%) | ASTM D 1003 | 2,9 | 3,1 | 3,5 |
| Gloss at 20° (%) | ASTM D 2457 | 120 | 120 | 115 |
| Coefficient of friction | ASTM D1894 | 0,25 | | |

Micro perforation patterns

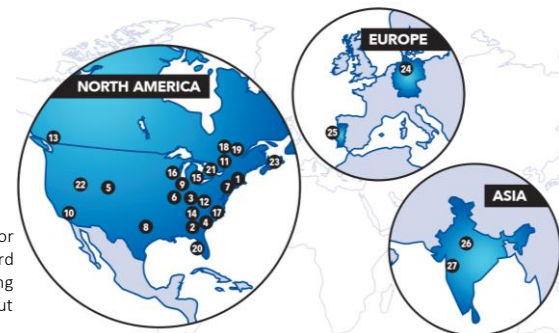
| Perforation | Pin/cm ² | Pattern |
|-------------|---------------------|---------|
| P4 | 0,5 | |
| P30 | 4,65 | |
| P80 | 12 | |
| P110 | 17 | |

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 warrants 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.



Estrada da Praia, nº 1087
4740 – 696 Barqueiros BCL
Portugal
Tel.: +351 253 859 270
Email: fibope@fibope.pt

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.