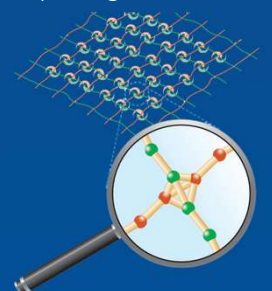




CROSSLINKING TECHNOLOGY

This innovative technique makes Exlfilmplus® Shrink Films one of the toughest and most versatile on the market. This is because the polymer chains are permanently bound into a network, significantly increasing their heat stability and strength. Our films have an inherently greater window of seal and shrink performance at a broader range of temperatures.

- Prevention of Buildup on wires and knives during sealing
- Prevention of Film Burn-Through in heat tunnels
- Increased Film Toughness on the finished package



PCR content for food contact available upon request.

Exlfilmplus®LSF is a perfect combination of high shrinkage and a low shrink force. Indicated for thin or delicate and sharp products. Exlfilmplus®LSF is soft cross-linked shrink for a wide range of packaging applications. Perfect for papers products, magazines, gift wrap, etc.

- Strong and durable seals.
- High gloss and clarity.
- Low shrink force to avoid the distortion of flexible products or buckling around the products.
- Complies with standards for direct food contact.

Thickness [μm]	Length [m]					
	Flat			Centerfolded		
11	22.500	11.250	7.500	3.750	3.750	1.875
12,5	19.800	9.900	6.600	3.300	3.300	1.650
15	16.500	8.250	5.500	2.750	2.750	1.375
19	12.900	6.450	4.300	2.150	2.150	1.075
25	9.000	4.500	3.000	1.500	1.500	750

Properties		Test Method	Thickness [μm]				
			11	12,5	15	19	25
Yield (m2/kg)		-	98,8	86,9	72,6	57,2	43,48
Unit Weight (g/m2)		-	10,1	11,5	13,8	17,5	22,9
Heat Shrinkage (%)	MD	120°C, air and 5 min MIE 002	77				
	TD		75				
Tensile Strength (MPa)	MD	ASTM D882	107		106	104	
	TD		110		109	103	
Elongation at Break (%)	MD		137		138	167	
	TD		118		122	130	
Gloss at 20° (%)		ASTM D 2457	120		112	103	
Haze (%)		ASTM D 1003	3,8		4,8	4,9	
Coefficient of friction		MIE 09	0,18				
Shrink Force at 100°C (N)	MD	MIE 019	0,32	0,39	0,41	0,56	0,60
	TD		0,42	0,50	0,70	0,82	1,00

Note: These values are typical and not intended as limiting specifications.

Cardboard core internal 76,6mm. Flat width from 200mm up to 1200mm with increments of 10mm. Centerfolded width from 150mm up to 1000mm with increments of 50mm. Other specifications available upon request.

Storage time should not exceed 12 months. The maximum storage temperature for optimum performance is 35°C.

Effective:09/25

Certificate
Holder



Fibope complies 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.



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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: 2015 and from 2013 according to the BRC / IOP reference Packaging. FIBOPE is ISCC plus certified, and we can provide more information about potential PCR content for food contact available upon request.

The quality of the products Exfilm®, Exfilmplus®, Exfilmfresh® and Exfilmeco® 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.