

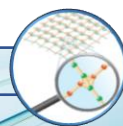
## CROSSLINKING TECHNOLOGY

Exlfilmplus®HG is a high gauge, crosslinked high performance film. This strong yet responsive shrink film is designed to contain and resist tearing while providing excellent clarity and production processing capability. Exlfilmplus®HG was developed especially for packaging of heavy and bulky items such as furniture items and in some cases replace expensive corrugated cartons.

- Excellent optics.
- High speed performance.
- Consistently stronger static seals.
- Exceptional tensile strength and tear resistance.
- High shrink ratio.
- Complies with standards for direct food contact.

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



Thickness [μm]	Length [m]				Width [mm]	
	Flat		Centerfolded		Flat	Centerfolded
19	4.300	2.150	2.150	1.075	From 200 up to 1200 width increments of 10mm	From 2 x 150 up to 2 x 1.000 width increments of 50mm
25	3.000	1.500	1.500	750		
38	2.160	1.080	1.080	540		

Cardboard core internal 76,6mm

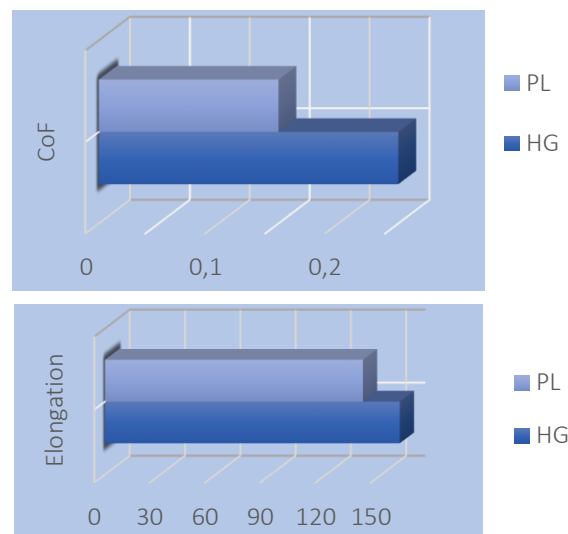
Other specifications available upon request

Properties		Test Method	Thickness (μm)			
			19	25	38	
Yield (m²/kg)		-	57,2	43,5	28,6	
Unit Weight (g/m²)		-	17,5	22,9	34,9	
Heat Shrinkage (%)	MD	60 °C, air, 5 min MIE 002	2			
	TD		4			
	MD	90 °C, air, 5 min MIE 002	11			
	TD		20			
	MD	120 °C, air, 5 min MIE 002	75	70	68	
	TD		75	70	68	
Tensile Strength (MPa)	MD	ASTM D882	115	100	90	
	TD		120	100	90	
Elongation at Break (%)	MD		135	160	165	
	TD		125	140	145	
Haze (%)			ASTM D 1003	3,5	4,0	4,5
Gloss at 20° (%)			ASTM D 2457	130	120	
Coefficient of friction		ASTM D 1894	0,25			

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

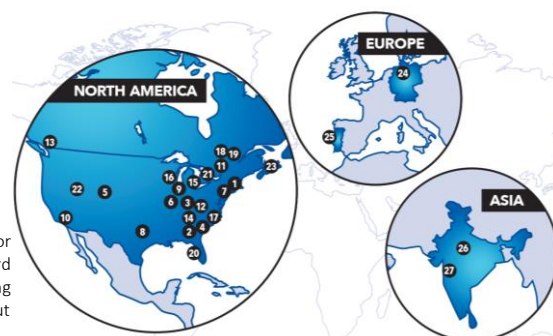
Storage time should not exceed 3 months. The maximum storage temperature for optimum performance is 35°C.

## HG vs PL



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.