



POLIFILM



POLIFLEXX[®]
GREEN



SUSTAINABLE. SAFE.
THE BIO-BASED
STRETCH FILM SOLUTIONS

EXCELLENCE IN FILMS

INNOVATION IS A MATTER OF TRUST QUALITY IS EXPERIENCE

„POLIFLEXX GREEN is for us the logical consequence on the way of further development of the POLIFLEXX line. The understanding of the entire product portfolio is based on Material savings due to avoidance of transport damage, down gauging and Supporting our customers to further optimize their business according to their needs. In short: on sustainable film solutions.“

MORE THAN A PROMISE COMPETENCE IN FILMS - TODAY AND TOMORROW

As one of the leading manufacturers and specialists of polyethylene-based films, POLIFILM EXTRUSION relies on specially developed and tested solutions to fulfil the customer promise of COMPETENCE IN FILMS today and tomorrow. This is exactly why the experienced

team of the stretch film division is at your side when it comes to testing how you too can benefit from bio-based stretch film solutions.

Ask now!

3 FACTS ABOUT SUGAR CANE

- ✓ **Sugar cane has a low water consumption** - in the cultivation phase additional irrigation is rarely required. The water supply with rainfall is completely sufficient in the growing areas of Brazil.
- ✓ **Sugar cane causes relatively few greenhouse gases during fertilisation** – in principle it fertilizes itself. Ethanol production from sugar cane produces a by-product, vinasse, which is used as an organic fertilizer. Doing without its chemical counterpart has a positive effect on the greenhouse gas balance.
- ✓ **Sugar cane is processed with bio electricity** – a large part of the sugar cane mills in Brazil is self-sufficient in terms of energy supply. The so-called bagasse, which is made up of the press residues from the sugar cane grinding process, is used to generate energy.

THE NEW GENERATION STRETCH FILMS POLIFLEXX GREEN

**WRAPPED IN GREEN. GOOD SAVED.
BIOBASED. POWERFUL.**

The extensions of the proven POLIFLEXX line from POLIFILM EXTRUSION, offer you bio-based stretch films that meet the modern demands for sustainable load unit securing: Precise performance for undamaged transports with optimised environmental compatibility.

**AND WHAT DO THEY FOREGO?
NOTHING AT ALL.**

POLIFLEXX GREEN stretch films offer high POLIFILM quality and their mechanical properties are comparable to those of other conventional film types. This makes them a pure Profit - for you and for the environment.

DEFINITELY MORE THAN GREEN WASHING - YOU ACHIEVE THIS WITH THE USE OF BIO-BASED STRETCH FILMS

- ✓ You improve the carbon footprint of your company & that of your customers, because 1t Green PE binds 3t CO₂.
- ✓ You differentiate yourself from the competition and qualify towards partners as sustainable company by identifying the potential for environmentally conscious action also in the supply chain.
- ✓ You reduce the proportion of fossil raw materials used in your load unit securing by more than 50%.
- ✓ They meet society's expectations for the responsible use of plastics, because biobased polyethylene (PE) is also a promising material for the production of 100% recyclable.



POLIFLEXX GREEN STRETCH - WHAT IS THAT ACTUALLY?!

POLIFLEXX GREEN stretch films are bio-based stretch films, which meet POLIFILM standards in terms of quality and mechanical properties. The special feature is that more than 50% Green PE is used in the raw material recipe during production. This type is a bio-based polyethylene, which is obtained from the renewable agricultural product sugar cane. In accordance with the ASTM D 8866/14C standard of the international standardisation organisation, it itself has a minimum proportion of more than 87% bio-based PEs. This has a positive effect on the CO₂ balance of the raw

material consideration. Of course, biobased PE films are also water-neutral and 100% recyclable, making them a real green alternative in terms of their contribution to recycling management.



POLIFLEXX GREEN H BIO-BASED IN HAND FORMAT

The bio-based POLIFLEXX GREEN H is your ideal partner for sustainable manual stretching of Pallets. No matter whether they are sharp-edged or unevenly shaped products and pallets with overhang or underhang. The green version meets your requirements for a high-quality stretch film just as well as the conventional solutions. The POLIFLEXX GREEN H combines easy handling with particularly good holding forces, which ensure secure packaging of the load and thus significantly reduce transport damage. The resulting material savings, together with the Bio-PE base, create a doubly sustainable solution that is worth seeing. Because the hand stretch film does not show its green image. Instead, it convinces with its high transparent texture, which enables very good barcode readability.

THE MOST IMPORTANT ADVANTAGES AT A GLANCE

- ✓ Extremely resistant due to good tear resistance as well as high shock and puncture resistance
- ✓ Easy to use
- ✓ Suitable for various requirements and load units

THE TECHNOLOGY AT A GLANCE

PROPERTIES		VALUES	UNIT	METHOD
Typical guide values, valid for 17-23 µm				
Thickness		Order thickness +/-1	µm	DIN 53370
Width		500	mm	GKV
Guaranteed Prestretch		170	%	Highlight tester
Tensile strength	MD	> 35	N/mm ²	DIN EN ISO 527-3
	TD	> 24		
Elongation	MD	> 400	%	DIN EN ISO 527-3
	TD	> 600		
Tear resistance	MD	> 40	N/mm ²	ASTM D 1922 (Elmendorf)
	TD	> 130		
Dart Drop		> 4	g/µm	ASTM 1790
Cling		> 1,0	N	ASTM 5458



POLIFLEX GREEN M AUTOMATIC GREEN WRAPPED

With a guaranteed stretch of up to 200%, the green machine stretch film brings sustainability to all common stretch wrappers and around the load to be secured.

The high tensile strength in longitudinal and transverse direction allows you to stretch continuously without breaking, so that you profit as usual in terms of load unit securing. Should damage occur during the actual transport, the good tear resistance limits the tearing of the film and ensures that your packaged goods reach their destination safely. The well thought-out POLIFILM formulation provides additional support in the logistics process. Because it ensures a high level of transparency, even in stretched condition, for good barcode readability.

THE MOST IMPORTANT ADVANTAGES AT A GLANCE

- ✓ Extremely resistant due to good tear resistance as well as high shock and puncture resistance
- ✓ With up to 200% elongation suitable for all common stretch winders
- ✓ Suitable for a wide range of packaged goods and barcode-readable

THE TECHNOLOGY AT A GLANCE

PROPERTIES <small>Typical guide values, valid for 17-23 µm</small>		VALUES	UNIT	METHOD
Thickness		Order thickness +/-1	µm	DIN 53370
Width		500	mm	GKV
Guaranteed Prestretch		200	%	Highlight tester
Tensile strengt h	MD	> 35	N/mm ²	DIN EN ISO 527-3
	TD	> 24		
Elongation	MD	> 400	%	DIN EN ISO 527-3
	TD	> 600		
Tear resistance e	MD	> 40	N/mm ²	ASTM D 1922 (Elmendorf)
	TD	> 130		
Dart Drop		> 4	g/µm	ASTM 1790
Cling		> 1,0	N	ASTM 5458



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