

# Polyethylene Film Transparent Cast Stretch Biodegradable Manual

Manual Application

## ● Description:

Manual Transparent Cast Stretch Film is produced from linear low-density polyethylene resins that exhibit good optical properties, mechanics and compaction. It's used as packaging for protection and unitization of loads during transportation and storage.

## ● Main characteristics:

- Biodegradable film with compound in its formulation that meets the ASTM D6954-4 standard in all phases, obtaining international certifications such as SP, FDA, INTERTEC and ROHS;
- Shelf Life of 2 years;
- Absence of toxic waste in its decomposition;
- Possibility of control over the shelf life of the material because the degradation by oxidation will only be activated when the material is disposed of in the environment and suffers actions of the weather;
- Biodegradable film with no changes in its final characteristics.
- High tensile strength.
- High adherence power.
- Good optical properties (brightness and transparency).
- High load retention (compaction).
- Protection against moisture and dust.

## ● Applications:

It is used for manual palletizing of products in the industries of beverages, food, cosmetics, hygiene and cleaning, pharmaceuticals, footwear, textiles, etc.  
It can be produced with thicknesses between 0,017 and 0,040mm, with and without a tube.  
Meets ANVISA's regulations for direct contact with food.

## ● Important considerations:

It is recommended to store this product at temperatures not exceeding 30° C, in the shade with relative humidity up to 60% as it may show decay of physical properties under uncontrolled storage conditions.

In addition, it must be used within the expiration date described in the identification labels.

Maintain adequate turnover of expiration dates (FIFO). The information given in the data sheets should be considered as comparative parameters and should not be taken as a guarantee. Other specifications may be met upon consultation and approval by our technical department.

Dimensional Properties		
Dimensions	Unit	Tolerance
Width	mm	+ o - 10
Thickness	%	+ o - 10
Grammage	%	+ o - 10
Inner diameter	inch	3
Coil Weight	%	+ o - 5
External diameter	mm	+ o - 10

Main properties							
Properties	Method	Unit	Thickness in mm				
			0,017	0,020	0,025	0,030	0,040
Maximum Tensile Strength *DM	ASTM D882	Kgf	1,30	1,50	1,80	2,00	2,20
Maximum Tensile Strength *DT	ASTM D882	Kgf	0,40	0,75	1,00	1,50	2,00
Elongation at breakage *DM	ASTM D882	%	150-200	175-225	200-250	225-275	300-350
Elongation at breakage *DT	ASTM D882	%	275-325	300-350	325-375	350-400	425-475
Puncture Resistance	GDM	Kgf	0,40	0,45	0,50	0,55	0,65
Resistance to Perforation in the Elongation (250%)	GDM	Kgf	0,30-0,35	0,35-0,40	0,40-0,45	0,45-0,50	0,55-0,60
Unwinding force (adherence)	GDM	Kgf	2,5	2,5	2,5	2,5	2,5

\*DM - Machine Direction

\*DT - Transversal Direction