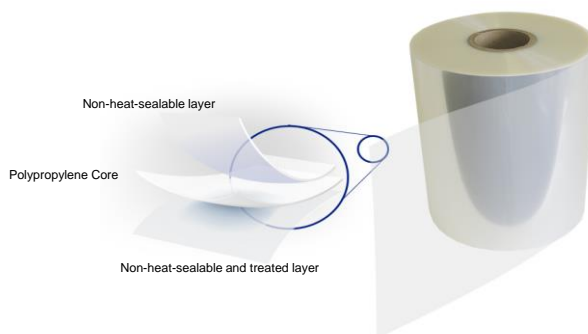


Main Characteristics

- Non-heat-sealable film;
- Surface treatment on inner and/or outer layer;
- Excellent optical properties (gloss and transparency);
- Optimum performance in flexographic and rotogravure printing techniques.

Typical Applications

- In Mould Labels - IML.



Properties	Methodology	Unit	Range	50TPYIML
Physical Properties				
Nominal Thickness	DIN 53370	µm	Target	50.0
			Min.	47.5
			Max.	52.5
		Gauge	Target	196.9
			Min.	187.0
			Max.	206.7
Unit Weight	ASTM D 4321	g/m ²	Target	45.3
			Min.	43.0
			Max.	47.5
		lb/ream	Target	27.8
			Min.	26.4
			Max.	29.2
Yield	ASTM D 4321	m ² /kg	Target	22.1
			Min.	21.0
			Max.	23.3
		in ² /lb	Target	15537
			Min.	14798
			Max.	16355
Surface Treatment	T	ASTM D 2578	dinas/cm	Target 42 Min. 38
Coefficient of Friction	NT	ASTM D 1894	-	Target 0.35 Min. 0.25 Max. 0.45
Optical Properties				
Haze	ASTM D 1003	%		Target 1.3 Max. 2.0
Gloss (45°)	ASTM D 2457	u.b.		Target 95 Min. 85
Mechanical Properties				
Tensile Strength	MD	ASTM D 882	N/mm ²	Target 140
	TD			250
	MD		lbf/in ²	Target 20305
	TD			36260
Elongation at Break	MD	ASTM D 882	%	Target 200
	TD			60
Shrinkage	MD	ASTM D 1204	%	Target 3
	TD			1
Barrier Properties				
TPVA 38°C / 90%UR	ASTM F 1249	g H ₂ O / (m ² .dia)	Target	≤ 5.0
WVTR 100°F / 90%RH	ASTM F 1249	g H ₂ O / (100in ² .day)	Target	≤ 0.32
TPO ₂ 23°C / 0%UR	ASTM D 3985	cm ³ O ₂ / (m ² .dia)	Target	≤ 1700
OTR 73°F / 0%RH	ASTM D 3985	cm ³ O ₂ / (100in ² .day)	Target	≤ 109

1. Acronyms:
MD: Machine Direction | TD: Transverse Direction;
NT: Non Treated Layer | T: Treated Layer.

2. Additional:
The restrained information in this datasheet represent typical data, and does not constitute genuine warranty liability as far as the product process and or application. In case of doubts or development of other thicknesses or applications, consult your dealer or send e-mail to: contato@polofilms.com.br.

TPY.IML

POLO PLAIN

Transparent BOPP film
Non-heat-sealable
Surface treatment for printing and/or lamination



Food Contact Regulations

PLAIN Family films comply with Mercosul, ANVISA, FDA (Food and Drug Administration) and the European Community legislations for applications involving direct contact with food. Full details are provided in the Declaration of Conformity. Customers intending to use PLAIN Family films for applications intended to come into contact with food should request a copy of that document from POLO Films. The MSDS (Material Safety Data Sheet), as well as the evaluation of conformity for contact with food from other legislations are also available upon request. Contact your dealer for any questions.

Storage and Transportation Terms & Conditions

All products are stored and transported in dry, covered and clean environments.
It is recommended that storage and transportation take place at temperature around 30°C and 60% relative humidity.

If the temperature and humidity are not as recommended, the following issues may occur:
- Decreased level of surface treatment, leading to printing and/or lamination difficulties;
- Decreased film transparency;
- Too low CoF, making processing and machinability difficult.

BOPP films are recommended to be kept at operating room temperature for 24 hours before use.

Dimensional Specifications / Product Validity

Width	Minimum: 0 mm Maximum: 2 mm (from standard width)
Outer Diameter*	Minimum: 30 mm Maximum: 20 mm (from standard diameter)
Core	Minimum: 1 mm Maximum: 1 mm (from standard diameter)
Splices per roll	Maximum: 2
% of Splices per order	Maximum: 30%
Shelf Life (after production)	6 months

* For other dimensional information, consult your dealer.

Polo Films Nomenclature

Unit Weight or Thickness | Technology | Main Feature | Specialty | Sealing | Treatment
50TPY IML 02

Unit Weight/ Thickness

Expressed in g/m². Used for white/opaque films;
Expressed in µm. Used for transparent, matte and metallized films.

Technology

T - Tenter | C - Cast.

Main Feature

PY - Plain transparent for printing and/or lamination.

Specialty

IML - In Mould Label.

Sealing

0 - Not Sealable;
1 - Sealing on the Inner Face;
2 - Sealing on the Outer Face;
3 - Sealing on both Sides.

Treatment

0 - No Treatment;
1 - Treatment on Inner Face;
2 - Treatment on Outer Face;
3 - Treatment on both Sides.

Review: 00/2020