

TPY.PSL

POLO PLAIN

Transparent BOPP film
Non-heat-sealable
Surface treatment for tags and self-adhesive labeling

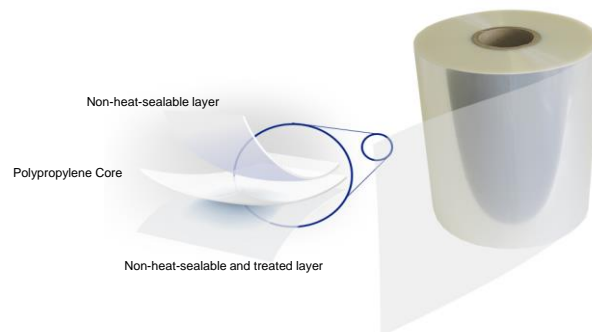


Main Characteristics

- 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

- Self-adhesive tags and labels (Pressure Sensitive Label).



Properties	Methodology	Unit	Range	40TPYPSL	50TPYPSL	
Physical Properties						
Nominal Thickness	DIN 53370	µm	Target	40.0	50.0	
			Min.	38.0	47.5	
			Max.	42.0	52.5	
		Gauge	Target	157.5	196.9	
			Min.	149.6	187.0	
			Max.	165.4	206.7	
Unit Weight	ASTM D 4321	g/m ²	Target	36.2	45.3	
			Min.	34.4	43.0	
			Max.	38.0	47.5	
		lb/ream	Target	22.2	27.8	
			Min.	21.1	26.4	
			Max.	23.4	29.2	
Yield	ASTM D 4321	m ² /kg	Target	27.6	22.1	
			Min.	26.3	21.0	
			Max.	29.1	23.3	
		in ² /lb	Target	19422	15537	
			Min.	18497	14798	
			Max.	20444	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			Target	250	
	MD		lb/in ²	Target	20305	
	TD			Target	36260	
Elongation at Break	MD	ASTM D 882	%	Target	190	200
	TD			Target	60	
Shrinkage	MD	ASTM D 1204	%	Target	3	
	TD			Target	1	
Barrier Properties						
TPVA 38°C / 90%UR	ASTM F 1249	g H ₂ O / (m ² .dia)	Target	≤ 5.0	≤ 5.0	
WVTR 100°F / 90%RH	ASTM F 1249	g H ₂ O / (100in ² .day)	Target	≤ 0.32	≤ 0.32	
TPO ₂ 23°C / 0%UR	ASTM D 3985	cm ³ O ₂ / (m ² .dia)	Target	≤ 1700	≤ 1700	
OTR 73°F / 0%RH	ASTM D 3985	cm ³ O ₂ / (100in ² .day)	Target	≤ 109	≤ 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.

Review: 00/2020

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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

50TPYPSL02

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

PSL - Self-adhesive labels and tags.

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.

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