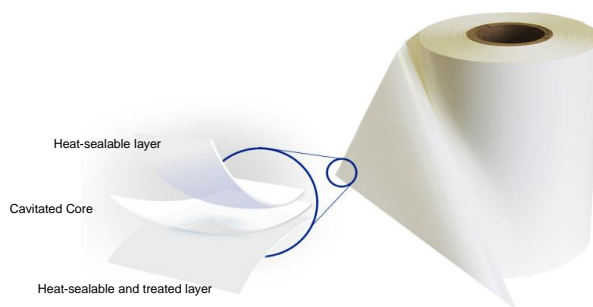


Main Characteristics

- Both sides heat-sealable, non-treated side from 112°C;
- Surface treatment on inner and/or outer layer;
- High gloss on both sides;
- High stiffness and low stretching;
- High-opacity cavitated film;
- Excellent performance in ultra-high speed labeling machines.

Typical Applications

- Continuous labels (WAL Roll Fed), laminate or monolayers.



Properties	Methodology	Unit	Range	22TBPRLB	26TBPRLB
Physical Properties					
Nominal Thickness	DIN 53370	µm	Target	32.1	37.1
			Min.	30.5	35.3
			Max.	33.8	39.0
		Gauge	Target	126.5	146.2
			Min.	120.2	138.9
			Max.	132.9	153.5
Unit Weight	ASTM D 4321	g/m ²	Target	22.5	26.0
			Min.	21.4	24.7
			Max.	23.6	27.3
		lb/ream	Target	13.8	16.0
			Min.	13.1	15.2
			Max.	14.5	16.8
Yield	ASTM D 4321	m ² /kg	Target	44.4	38.5
			Min.	42.3	36.6
			Max.	46.8	40.5
		in ² /lb	Target	31248	27041
			Min.	29760	25753
			Max.	32892	28464
Surface Treatment	T	ASTM D 2578	dinas/cm	Target	40
				Min.	38
Coefficient of Friction	NT	ASTM D 1894	-	Target	0.25
				Min.	0.13
				Max.	0.30
Optical Properties					
Transmittance	ASTM D 1003	%	Target	27	
			Min.	19	
			Max.	30	
Gloss (45°)	ASTM D 2457	u.b.	Target	90	
			Min.	80	
Mechanical Properties					
Tensile Strength	MD	ASTM D 882	N/mm ²	Target	90
				TD	140
	TD		lb/in ²	Target	13053
				20305	
Elongation at Break	MD	ASTM D 882	%	Target	130
	TD			40	
Shrinkage	MD	ASTM D 1204	%	Target	3
	TD			1	
Sealing Range	NT	ASTM F 88	°C	Target	112 - 130
			°F	Target	234 - 266
Sealing Strength	NT	ASTM F 88	g/25mm or gf/in	Target	700
				Min.	350
Barrier Properties					
TPVA 38°C / 90%UR	ASTM F 1249	g H ₂ O / (m ² .dia)	Target	NA	NA
WVTR 100°F / 90%RH	ASTM F 1249	g H ₂ O / (100in ² .day)	Target	NA	NA
TPO ₂ 23°C / 0%UR	ASTM D 3985	cm ³ O ₂ / (m ² .dia)	Target	NA	NA
OTR 73°F / 0%RH	ASTM D 3985	cm ³ O ₂ / (100in ² .day)	Target	NA	NA

1. Acronyms:
MD: Machine Direction | TD: Transverse Direction;
NT: Non Treated Layer | T: Treated Layer;
NA: Not Applicable;
WAL: Wrap Around Label.

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.



Food Contact Regulations

OPAQUE 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 OPAQUE 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

22TBPRLB32

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 | P - BOPET.

Main Feature

BP - Heat-sealable opaque white for printing and/or lamination.

Specialty

RLB - Specially designed for "Roll Label" signs.

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.