

White Opaque BOPP film Surface treatment **Pressure Sensitive Label application**

Main Characteristics

- Heat-sealable on glossy side from 112°C;
- Surface treatment on inner and outer layer;
- One side white highly-glossy and the other side matte;
 High stiffness and low stretching;
- High-opacity cavitated film;
- Optimum performance in flexographic, rotogravure, digital, ultraviolet and thermal transfer printers.

Typical Applications

- Self-adhesive tags and labels (Pressure Sensitive Label);
- Magazine labels (WAL Cut & Stack);
 Decorative applications in general.



Properties		Methodology	Unit	Range	40TWOPSL
i		Physical Pi	roperties		
				Target	53.3
		DIN 53370	μm	Min.	50.7
				Max.	56.0
Nominal Thickness			Gauge	Target	210.0
				Min.	199.5
				Max.	220.5
Unit Weight		ASTM D 4321	g/m²	Target	40.0
				Min.	38.0
				Max.	42.0
			lb/ream	Target	24.6
				Min.	23.3
				Max.	25.8
				Target	25.0
			m²/kg	Min.	23.8
				Max.	26.3
Yield		ASTM D 4321	in²/lb	Target	17577
				Min.	18502
				Max.	16740
Surface Treatment		ASTM D 2578	dinas/cm	Target	40
	Т			Min.	38
Coefficient of Friction		ASTM D 1894	-	Target	0.35
	MAT			Min.	0.25
	100 (1			Max.	0.50
		Optical Pr	operties	With A	
Transmittance		ASTM D 1003	%	Target	17
				Min.	14
				Max.	20
				Target	12
Gloss (45°)	MAT	ASTM D 2457	u.b.	Min.	14
		Mechanical I	Properties		1
Tensile Strenght	MD	ASTM D 882	N/mm²	Target	90
	TD				180
	MD		lbf/in²	Target	13053
	TD			rarget	26107
	TD MD		IDI/IIF	-	26107 180
Elongation at Break	MD	ASTM D 882		Target	
	MD TD			-	180 35
Elongation at Break	MD TD MD	ASTM D 882		-	180 35 3
	MD TD		%	Target Target	180 35 3 1
	MD TD MD		% °C	Target Target Target	180 35 3 1 112 - 130
Shrinkage Sealing Range	MD TD MD TD BRI	ASTM D 1204 ASTM F 88	°C °F	Target Target Target Target	180 35 3 1 112 - 130 234 - 266
Shrinkage	MD TD MD TD	ASTM D 1204	% °C	Target Target Target Target Target	180 35 3 1 112 - 130
Shrinkage Sealing Range	MD TD MD TD BRI	ASTM D 1204 ASTM F 88 ASTM F 88	% °C °F g/25mm or gt/in	Target Target Target Target	180 35 3 1 112 - 130 234 - 266 800
Shrinkage Sealing Range Sealing Strenght	MD TD MD TD BRI	ASTM D 1204 ASTM F 88	% °C °F g/25mm or gt/in	Target Target Target Target Target Min.	180 35 3 1 112 - 130 234 - 266 800
Shrinkage Sealing Range Sealing Strenght TPVA 38°C / 90%UR	MD TD MD TD BRI	ASTM D 1204 ASTM F 88 ASTM F 88 Barrier Pro ASTM F 1249	% °C °F g/25mm or gf/in operties g H ₂ O / (m².dia)	Target Target Target Target Target Min. Target	180 35 3 1 112 - 130 234 - 266 800 350
Shrinkage Sealing Range Sealing Strenght	MD TD MD TD BRI	ASTM D 1204 ASTM F 88 ASTM F 88 Barrier Pro	% °C °F g/25mm or gf/in operties	Target Target Target Target Target Min.	180 35 3 1 112 - 130 234 - 266 800 350 NA

1. Acronyms: MD: Machine Direction | TD: Transverse Direction; T: Treated Layer | MAT: Matte Layer | BRI: Bright 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.

Polo Films Indústria e Comércio S.A. Website: www.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

