

Properties		Methodology	Unit	Range	20TBB	22TBB	26TBB	
			Physical Pr	operties			1	
Nominal Thickness		DIN 53370	μm	Target	29.2	31.3	35.6	
Orientation			Gauge	Target	116.8	125.0	142.5	
				Target	20.0	22.0	26.0	
			g/m²	Min.	19.0	19.0	19.0	
			-	Max.	21.0	21.0	21.0	
Unit Weight		ASTM D 4321		Target	12.3	13.5	15.9	
			lb/ream	Min.	11.7	11.7	11.7	
			-	Max.	12.9	12.9	12.9	
				Target	50.0	45.5	38.5	
			m²/kg	Min.	47.6	47.6	47.6	
Yield	ASTM D 4321		Max.	52.6	52.6	52.6		
neiu		ASTM D 4321		Target	35000	31818	26923	
			in²/lb	Min.	33333	33333	33333	
				Max.	36842	36842	36842	
Surface Treatment	т	ASTM D 2578	dinas/cm	Target		40		
Surface Treatment		ASTIVI D 2578	unas/cm	Min.	38			
			-	Target		0.30		
Coefficient of Friction	NT	ASTM D 1894		Min.	0.20			
				Max.	0.40			
			Optical Pro	perties				
Transmittance		ASTM D 1003	%	Target		29		
Transmittance		ASTIND 1003	70	Max.		34		
Gloss (45°)		ASTM D 2457	u.b.	Target		85		
GIOSS (45 )		ASTNI D 2457	u.b.	Min.		77		
			Mechanical F	Properties				
	MD		NI/mana?	Townst		80		
Tensile Strenght	TD	ASTM D 882	N/mm <sup>2</sup>	Target		140		
Tensile Strengrit	MD		lbf/in²	Target		11600		
	TD					20300		
Elongation at Brook	MD	ASTM D 882		Torget		120		
Elongation at Break	TD	ASTIVI D 662	Target %	40				
Shrinkage	MD	ASTM D 1204	70	Target		3		
Shinikaye	TD	ASTWD 1204		Target		1		
Sociera Bongo	NT	ASTM F 88	°C Target		105 - 130			
Sealing Range		ASTIVIE 88	°F	Target		221 - 266		
Sealing Strenght	NT	ASTM F 88	g/25mm or	Target	400	500	600	
Sealing Strenght NT		ASTIVIT 00	gf/in	Min.		300		
			Barrier Pro	perties				
TPVA   38°C / 90%UR		ASTM F 1249	g H <sub>2</sub> O / (m <sup>2</sup> .dia)	Target		NA		
WVTR   100°F / 90%RH		ASTM F 1249	g H <sub>2</sub> O / (100in <sup>2</sup> .day)	Target		NA		
TPO <sub>2</sub>   23°C / 0%UR		ASTM D 3985	cm3 O2 / (m2.dia)	Target		NA		
OTR   73°F / 0%RH		ASTM D 3985	cm3 O2 / (100in2.day)	Target		NA		

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.



## White Opaque Base BOPP Film for Metallization Heat-sealable Surface treatment for printing and/or lamination

**REVISION: 00** 



PAGE: 2/2

REF: P&D-DS-046

DATE: 01/09/2023

## 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 / Thickness	
Expressed in g/m². Used for white/opaque films; Expressed in $\mu m.$ 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	
BB - White opaque base for metallization.	
Sealing	ĺ
0 - Not Sealable;	
0 - Not Sealable; 1 - Sealing on the Inner Face;	
1 - Sealing on the Inner Face;	
<ol> <li>Sealing on the Inner Face;</li> <li>Sealing on the Outer Face;</li> <li>Sealing on both Sides.</li> </ol>	
1 - Sealing on the Inner Face; 2 - Sealing on the Outer Face; 3 - Sealing on both Sides. Treatment	
1 - Sealing on the Inner Face;     2 - Sealing on the Outer Face;     3 - Sealing on both Sides.  Treatment 0 - No Treatment;	
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;	
1 - Sealing on the Inner Face;     2 - Sealing on the Outer Face;     3 - Sealing on both Sides.  Treatment 0 - No Treatment;	