

Transparent BOPP film base for metallization Heat-sealable Surface treatment for printing and/or lamination

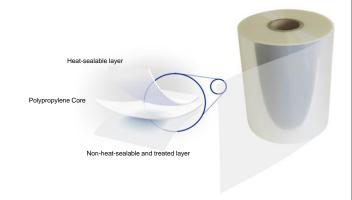


Main Characteristics

- Non-treated side heat-sealable from 105°C;
- Surface treatment on inner or outer layer;
 Optimum optical properties (gloss and transparency).

Typical Applications

- Flexible packaging for food: cookies, snacks, chocolate bars, cereal bars, labels and decorative applications in general;
 Non-food flexible packaging: monolayers or laminate.



Properties		Methodology	Unit	Range	15TSB	17TSB	20TSB	25TSB	30TSB	45TSB	50TSB
			Physica	al Properties							
				Target	15.0	17.0	20.0	25.0	30.0	45.0	50.0
			μm	Min.	14.3	16.2	19.0	23.8	28.5	42.8	47.5
No. of the Land		DIN 50070		Max.	15.8	17.9	16.2	31.5	47.3	52.5	
Nominal Thickness		DIN 53370	Gauge	Target	59.1	66.9	78.7	98.4	118.1	177.2	196.9
				Min.	56.1	63.6	74.8	93.5	112.2	168.3	187.0
				Max.	62.0	70.3	82.7	103.3	124.0	186.0	206.7
			g/m²	Target	13.6	15.4	18.1	22.6	27.2	40.7	45.3
				Min.	12.9	14.6	17.2	21.5	25.8	38.7	43.0
Unit Weight		ASTM D 4321	J	Max.	14.3	16.2	19.0	23.8	28.5	42.8	47.5
			lb/ream	Target	8.3	9.5	11.1	13.9	16.7	25.0	27.8
				Min.	7.9				15.8	23.8	26.4
				Max.	8.8				17.5	26.3	29.2
			m²/kg	Target	73.7				36.8	24.6	22.1
				Min.	70.2				35.1	23.4	21.0
			,9	Max.	77.5				38.8	25.8	23.3
Yield		ASTM D 4321		Target	51792	45698			25896	17264	15537
			in²/lb	Min.	49325				24663	16442	14798
				Max.	54517				27259	18172	16355
				Target							
Surface Treatment	Т	ASTM D 2578	dinas/cm	Min.							
				Target							
Coefficient of Friction	NT	ASTM D 1894		Min.							
Coefficient of Friction	INI		-	Max.							
			Ontico	l Properties				0.42			
			Optica	•	4.5	4 =	4 =	4 -	4.0	4.0	4.0
Haze		ASTM D 1003	%	Target	1.5	1.7	1.7		1.8	1.8	1.8
				Max.							
Gloss (45°)		ASTM D 2457	u.b.	Target							
, ,				Min.				80			
			Mechanio	cal Propertie	S						
Tensile Strenght	MD	ASTM D 882	N/mm²	Target	Target						
	TD			J • •							
	MD		lbf/in²	Target							
	TD							34809			
Elongation at Break	MD	ASTM D 882	%	Target	160	170	185		210	225	240
	TD										
Shrinkage	MD	ASTM D 1204		Target	-						
	TD				·						
Sealing Range	NT	ASTM F 88	°C	Target	105 - 130						
			°F	Target				221 - 266	6		
Sealing Strenght	NT	ASTM F 88	g/25mm or gf/in	Target	350	400	450	550	600	700	800
Sealing Strenght				Min.				350			
Sealing Strenght											
Sealing Strenght			Barrie	Properties							
Sealing Strenght TPVA 38°C / 90%UR		ASTM F 1249	Barrie g H ₂ O / (m².dia)	Properties Target	≤ 9.5	≤ 9.0	≤ 8.5	≤ 6.5	≤ 5.5	≤ 4.5	≤ 3.5
		ASTM F 1249 ASTM F 1249			≤ 9.5 ≤ 0.61	≤ 9.0 ≤ 0.58	≤ 8.5 ≤ 0.55	≤ 6.5 ≤ 0.42	≤ 5.5 ≤ 0.35	≤ 4.5 ≤ 0.29	≤ 3.5 ≤ 0.22
TPVA 38°C / 90%UR			g H ₂ O / (m².dia)	Target		≤ 0.58					

^{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.

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Food Contact Regulations

SEAL 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 SEAL 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 μ m. Used for transparent, matte and metallized films.

Technology

T - Tenter | C - Cast.

Main Feature

SB - Transparent heat-sealable base metallization

Specialty Specialty							
Not applicable.							

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.