

Transparent BOPP film Base for Metallization Heat-sealable Surface treatment for printing and/or lamination

Main Characteristics

- Heat-sealable on one side from 112°C;
- Surface treatment on inner and outer layer; • Good optical properties (brightness and transparency).

Typical Applications

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

Properties		Methodology	Unit	Range	20TBH
		Physical P	roperties		
				Target	20.0
		DIN 53370	μm	Min.	19.0
				Max.	21.0
Nominal Thickness				Target	78.7
			Gauge	Min.	74.8
				Max.	82.7
Unit Weight		ASTM D 4321	g/m²	Target	18.1
				Min.	17.2
				Max.	19.0
			lb/ream	Target	11.1
				Min.	10.6
				Max.	11.7
			m²/kg	Target	55.2
				Min.	52.6
				Max.	58.2
Yield		ASTM D 4321	in²/lb	Target	38844
				Min.	36994
				Max.	40888
Surface Treatment			dinas/cm	Target	40
	Т	ASTM D 2578		Min.	36
Coefficient of Friction		T ASTM D 1894	-	Target	0.35
	т			Min.	0.30
	•			Max.	0.40
		Optical Pr	operties	Max.	0.10
Haze		ASTM D 1003	%	Target	1.8
				Max.	3.0
Gloss (45°)		ASTM D 2457	u.b.	Target	95
				Min.	85
		Mechanical	Properties	IVIII.	00
	MD	ASTM D 882	N/mm ²	Target	150
Tensile Strenght	TD				270
	MD		lbf/in ²	Target	21756
	TD				39160
	MD			Target	180
Elongation at Break	TD	ASTM D 882	%		40
Shrinkage	MD	ASTM D 1204		Target	3
	TD				1
	טו		°C	Target	112 - 130
Sealing Range	т	ASTM F 88	°F	Target	234 - 266
				-	234 - 200 450
Sealing Strenght	т	ASTM F 88	g/25mm or gf/in	Target Min.	450 300
		Barrier Pro	-	IVIII.	300
		ASTM F 1249	g H ₂ O / (m ² .dia)	Torget	≤ 8
TPVA 38°C / 90%UR		ASTM F 1249 ASTM F 1249	g H ₂ O / (110in ² .day)	Target	
WVTR 100°F / 90%RH		ASTM F 1249 ASTM D 3985	g H ₂ O / (100in ² .day) cm ³ O ₂ / (m ² .dia)	Target	≤ 0.51 ≤ 3000
TPO ₂ 23°C / 0%UR			cm ³ O ₂ / (m ² .dla) cm ³ O ₂ / (100in ² .day)	Target	
OTR 73°F / 0%RH		ASTM D 3985	GIT 02/(100In4.day)	Target	≤ 193

1. Acronyms: MD: Machine Direction | TD: Transverse Direction; 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.

Polo Films Indústria e Comércio S.A. Website: www.polofilms.com.br

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Non-heat-sealable and treated layer

Polypropylene Core





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/opague films:

Expressed in µm. Used for transparent, matte and metallized films.

Technology

T - Tenter | C - Cast | P - BOPET.

Specialty

Main Feature BH - Transparent heat-sealable base for metallization with bitrating.

Not applicable.

0 - Not Sealable;	Sealing	
1 - Sealing on the Inner Face;		
2 - Sealing on the Outer Face;		
3 - Sealing on both Sides.		

0 - No Treatment;

- 1 Treatment on Inner Face;
- 2 Treatment on Outer Face;
- 3 Treatment on both Sides.