Transparent BOPP film Heat-sealable Surface treatment for printing and/or lamination Suitable for pasta packaging

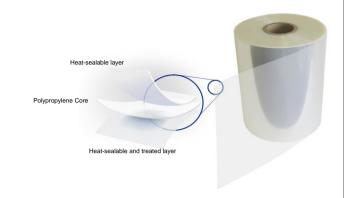


Main Characteristics

- Both sides heat-sealable, non treated side from 105°C
- Surface treatment on inner or outer layer;
- Optimum optical properties (gloss and transparency);
 Stable CoF at higher temperature than room temperature (Stable Hot Slip).

Typical Applications

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



Properties		Methodology	Unit	Range	20TSYPAS
		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		Target	18.1
			g/m²	Min.	17.2
				Max.	19.0
			lb/ream	Target	11.1
				Min.	10.6
				Max.	11.7
Yield		ASTM D 4321	m²/kg	Target	55.2
				Min.	52.6
				Max.	58.2
				Target	38844
			in²/lb	Min.	36994
			,10	Max.	40888
		ASTM D 2578	dinas/cm	Target	42
Surface Treatment	Т			Min.	38
		ASTM D 1894	-	Target	0.25
Coefficient of Friction	NT			Min.	0.18
	141			Max.	0.35
		Optical Pr	operties	IVIAX.	0.55
Haze		ASTM D 1003	%	Target	1.7
				Max.	2.5
Gloss (45°)		ASTM D 2457	u.b.	Target	95
				Min.	85
		Mechanical I	Properties	IVIII I.	
Tensile Strenght	MD	ASTM D 882	N/mm²	Target	150
	TD				270
	MD		lbf/in²	Target	21756
	TD				39160
	MD				190
Elongation at Break	TD	ASTM D 882	%	Target	40
	MD				3
Shrinkage	TD	ASTM D 1204		Target	1
	טו		°C	T	
Sealing Range	NT	ASTM F 88		Target	105 - 130
			°F	Target	221 - 266
Sealing Strenght	NT	ASTM F 88	g/25mm or gf/in	Target	500
		Damian B	-	Min.	300
TD\/A 20°C / 000/LID		Barrier Pro		T '	/75
TPVA 38°C / 90%UR		ASTM F 1249 ASTM F 1249	g H ₂ O / (m².dia)	Target	≤ 7.5
WVTR 100°F / 90%RH			g H ₂ O / (100in².day)	Target	≤ 0.48
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm³ O ₂ / (m².dia)	Target	≤ 3100
OTR 73°F / 0%RH		ASTM D 3985	cm ³ O ₂ / (100in ² .day)	Target	≤ 199

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 µm. Used for transparent, matte and metallized films

Technology

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

Main Feature

SY - Transparent heat-sealable for printing and/or lamination.

Specialty

PAS - Flexible film suitable for application in pasta packaging.

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.