Transparent BOPP film Heat-sealable Medium shrinkage

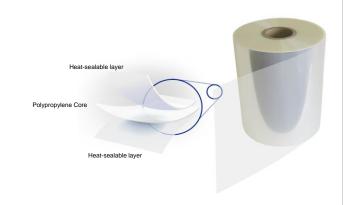


Main Characteristics

- Both sides heat-sealable, with the inner side from 82°C;
- Optimum optical properties (gloss and transparency);
- Excellent performance in high-speed packing machines.

Typical Applications

- Overwrapping for food: bonbon boxes, cookies and food in general;
- Non-food overwrapping: toilet soap, toothpaste grouping;
 Provides increased productivity for filling or packing processes owing to decreased sealing time;



Properties	Properties		Unit	Range	20TFWL82	25TFWL8	
		Ph	ysical Properties				
				Target	20.0	25.0	
Nominal Thickness		DIN 53370	μm	Min.	19.0	23.8	
				Max.	21.0	26.3	
			Gauge	Target	78.7	98.4	
				Min.	74.8	93.5	
				Max.	82.7	103.3	
Unit Weight		ASTM D 4321	g/m²	Target	18.3	22.8	
				Min.	17.3	21.7	
				Max.	19.2	24.0	
				Target	11.2	14.0	
			lb/ream	Min.	10.7	13.3	
				Max.	11.8	14.7	
				Target	54.8	43.8	
Yield		ASTM D 4321	m²/kg	Min.	52.2	41.7	
				Max.	57.6	46.1	
			in²/lb	Target	38503	30803	
				Min.	36670	29336	
				Max.	40530	32424	
		ASTM D 2578	dinas/cm	Target	NA		
Surface Treatment	Т			Min.	NA NA		
				Target	0.23		
Coefficient of Friction NT		ASTM D 1894	<u>-</u>	Min.	0.18		
				Max.	0.30		
		O	otical Properties	IVICIX.			
Haze		ASTM D 1003	%	Target	1.8		
				Max.	2.5		
		ASTM D 2457	u.b.	Target	95		
Gloss (45°)				Min.	95 85		
		Mec	hanical Propertie			<u> </u>	
	MD	INICO	namear r ropertie	3	16	SO.	
Tensile Strenght	TD	ASTM D 882	N/mm²	Target	160 240		
	MD		lbf/in²		23206		
	TD			Target	34809		
	MD				170		
Elongation at Break Shrinkage	TD	ASTM D 882 ASTM D 1204	%	Target	50		
					6		
	MD			Target			
	TD		°C	T	5		
Sealing Range	NT	ASTM F 88	°F	Target		82 - 125	
				Target 180 - 25			
Sealing Strenght	NT	ASTM F 88	g/25mm or	Target	450	500	
			gf/in	Min.	30)U	
TD144 0000			arrier Properties		4.5 -		
TPVA 38°C / 90%UR		ASTM F 1249	g H ₂ O / (m².dia)	Target	≤ 6,5	≤ 5,5	
WVTR 100°F / 90%RH		ASTM F 1249	g H ₂ O / (100in².day)	Target	≤ 0.42	≤ 0.35	
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm³ O ₂ / (m².dia)	Target	≤ 2100	≤ 1700	
OTR 73°F / 0%RH		ASTM D 3985	cm3 O2 / (100in2.day)	Target	≤ 135	≤ 109	

1. Acronyms:

MD: Machine Direction | TD: Transverse Direction;

NT: Non Treated Layer | T: Treated Layer;

NA: Not Applicable.

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.



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: 1 mm Maximum: 1 mm (from standard width)
Outer Diameter*	Minimum: 10 mm Maximum: 10 mm (from standard diameter)
Core	Minimum: 1 mm Maximum: 1 mm (from standard diameter)
Splices per roll	Maximum: 1
% of Splices per order	Maximum: 30%
Shelf Life (after production)	9 months

^{*} For other dimensional information, consult your dealer

Polo Films Nomenclature

Unit Weight or Thickness Technology

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

FW - Transparent heat-sealable for overwrapping.

Specialty

L82 - Initial sealing temperature at 82°C.

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.