Transparent BOPP film Heat-sealable Medium shrinkage



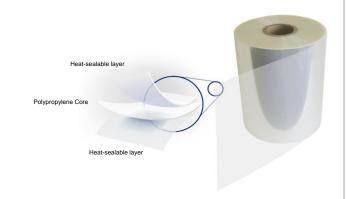
Main Characteristics

- 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

• Overwrap films and pack grouping for cigarette industries (tobacco).



Properties		Methodology	Unit	Range	20TFCL82	25TFCL82
		Phy	ysical Properties	5		
				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
			lb/ream	Target	11.2	14.0
				Min.	10.7	13.3
				Max.	11.8	14.7
			m²/kg	Target	54.8	43.8
				Min.	52.2	41.7
				Max.	57.6	46.1
Yield		ASTM D 4321		Target	38503	30803
			in²/lb	Min.	36670	29336
				Max.	40530	32424
			dinas/cm	Target	N.	A
Surface Treatment	Т	ASTM D 2578		Min.	NA	
		T ASTM D 1894	-	Target	0.23	
Coefficient of Friction	NT			Min.	0.18	
				Max.	0.30	
		Op	otical Properties			
Haze		ASTM D 1003	%	Target	1.8	
				Max.	2.5	
Gloss (45°)		ASTM D 2457	u.b.	Target	95	
				Min.	85	
		Mec	hanical Propertie	es		
	MD	ASTM D 882	N/mm²	Target	160	
Tensile Strenght	TD				240	
	MD		lbf/in²	Target	23206	
	TD				34809	
Elongation at Break	MD	AOTA D CCC	%		17	0
	TD	ASTM D 882		Target	50	
Shrinkage	MD	ASTM D 1204		_	6	
	TD			Target	5	
Sealing Range			°C	Target	82 - 125	
	NT	ASTM F 88	°F	Target	180 - 257	
		_	g/25mm or	Target	450	500
Sealing Strenght NT		ASTM F 88	gf/in	Min.	30	
		Ba	arrier Properties			_
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						≤ 1700
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm3 O2 / (m2.dia)	Target	≤ 2100	≥ 1/00

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: 10%
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

FC - Heat-sealable transparent for cigarettes.

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.