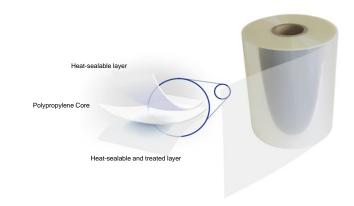


Main Characteristics

- Both sides heat-sealable, non-treated side from 105°C;
- Surface treatment on inner or outer layer;
 Optimum optical properties (gloss and transparency);
 Excellent performance in packing machines.

Typical Applications

- Flexible packaging for food: cookies, snacks, chocolate bars, cereal bars and packaging for printed grouping;
 Non-food flexible packaging: monolayers or laminate.



Properties		Methodology	Unit	Range	30TSYWPG
		Physical Pi	operties		
				Target	30.0
			μm	Min.	28.5
Nominal Thickness		DIN 53370		Max.	31.5
			Gauge	Target	118.1
				Min.	112.2
				Max.	124.0
Unit Weight		ASTM D 4321	g/m²	Target	27.2
				Min.	25.8
				Max.	28.5
				Target	16.7
			lb/ream	Min.	15.8
				Max.	17.5
			m²/kg	Target	36.8
				Min.	35.1
				Max.	38.8
Yield		ASTM D 4321		Target	25896
			in²/lb		24663
				Min. Max.	27259
Surface Treatment	Т	ASTM D 2578	dinas/cm	Target	42
				Min.	38
	NT	ASTM D 1894	<u>-</u>	Target	0.25
Coefficient of Friction				Min.	0.20
			-	Max.	0.30
		Optical Pr	operties		1
Haze Gloss (45°)		ASTM D 1003	%	Target	1.8
				Max.	2.5
		ASTM D 2457	u.b.	Target	95
				Min.	85
		Mechanical I	Properties		
Tensile Strenght	MD	ASTM D 882	N/mm²	Target	140
	TD			raryet	240
	MD		lbf/in²	Target	20305
	TD				34809
Elongation at Break	MD	ASTM D 882		Tornot	220
	TD		Target	60	
Shrinkage	MD	ASTM D 1204	%	Target	3
	TD				1
Sealing Range	NT	ASTM F 88	°C	Target	105 - 130
			°F	Target	221 - 266
	NT	ASTM F 88	g/25mm or gf/in	Target	550
Sealing Strenght				Min.	300
		Barrier Pro	operties		
TPVA 38°C / 90%UR		ASTM F 1249	g H ₂ O / (m².dia)	Target	≤ 6.0
WVTR 100°F / 90%RH		ASTM F 1249	g H ₂ O / (100in².day)	Target	≤ 0.39
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm³ O ₂ / (m².dia)	Target	≤ 1900
OTR 73°F / 0%RH		ASTM D 3985	cm ³ O ₂ / (100in ² .day)	Target	≤ 122
2		. 10 1111 D 0000	2. (.com ady)	raryet	- 122

^{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.



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

30TSYWPG32

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

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

Specialty

WPG - Packaging for wrapping groups.

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.