TFW.HSK

Transparent BOPP film Heat-sealable High shrinkage

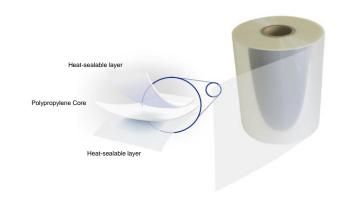


Main Characteristics

- Both sides heat-sealable from 105°C;
- No surface treatment;
- Optimum optical properties (gloss and transparency);
 Excellent performance in packing machines.

Typical Applications

- Overwrapping for food: bonbon boxes, cookies and food in general;
- Non-food overwrapping: toilet soap, toothpaste grouping;
 Overwrapping in general.



Properties		Methodology	Unit	Range	19TFWHSK	20TFWHS	
		Ph	ysical Properties				
				Target	19.0	20.0	
Nominal Thickness		DIN 53370	μm	Min.	18.1	19.0	
				Max.	20.0	21.0	
			Gauge	Target	74.8	78.7	
				Min.	71.1	74.8	
				Max.	78.5	82.7	
Unit Weight		ASTM D 4321	g/m²	Target	17.3	18.3	
				Min.	16.5	17.3	
				Max.	18.2	19.2	
			lb/ream	Target	10.7	11.2	
				Min.	10.1	10.7	
				Max.	11.2	11.8	
			m²/kg	Target	57.6	54.8	
				Min.	54.9	52.2	
				Max.	60.7	57.6	
Yield		ASTM D 4321	in²/lb	Target	40530	38503	
				Min.	38600	36670	
				Max.	42663	40530	
		ASTM D 2578	dinas/cm	Target	NA NA		
Surface Treatment	Т			Min.	NA NA		
				Target	0.30		
Coefficient of Friction NT		ASTM D 1894	<u>-</u>	Min.	0.24		
				Max.	0.36		
		O	otical Properties	WIGA.			
Haze		ASTM D 1003	%	Target	1.8		
				Max.	2.5		
				Target	95		
Gloss (45°)		ASTM D 2457	u.b.	Min.	85		
		Mec	hanical Propertie				
MD		Mee	namear i ropertie		1	70	
Tensile Strenght	TD	ASTM D 882	N/mm²	Target	170 300		
	MD		lbf/in²		24656		
	TD			Target	43511		
	MD				150		
Elongation at Break Shrinkage	TD	ASTM D 882 ASTM D 1204	% =	Target			
	MD				50 9		
				Target	10		
	TD		°C	T			
Sealing Range	NT	ASTM F 88	°F	Target	105 - 130 221 - 266		
				90.			
Sealing Strenght NT		ASTM F 88	g/25mm or	Target	470 300		
			gf/in	Min.	30	JU	
TD\/A 0000 / 000/115			arrier Properties			7.0	
TPVA 38°C / 90%UR		ASTM F 1249	g H ₂ O / (m².dia)	Target	≤7.0		
WVTR 100°F / 90%RH		ASTM F 1249	g H ₂ O / (100in².day)	Target	≤ 0.45		
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm³ O ₂ / (m².dia)	Target	≤ 2100		
OTR 73°F / 0%RH		ASTM D 3985	cm3 O ₂ / (100in2.day)	Target	_ ≤1	≤ 135	

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.

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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: 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

FWHSK30

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

HSK - High shrinkage and stiffness.

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.