TFC.HSK

Transparent BOPP film Heat-sealable High shrinkage

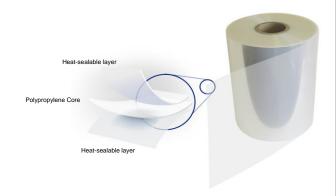


Main Characteristics

- 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 cigarette industries (tobacco);
- Flexible packaging for hardbox cigarette (tobacco).



Properties		Methodology	Unit	Range	19TFCHSK	20TFCHSk	
		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	
				Target	10.7	11.2	
			lb/ream	Min.	10.1	10.7	
				Max.	11.2	11.8	
		ASTM D 4321	m²/kg	Target	57.6	54.8	
				Min.	54.9	52.2	
W: -1 -1				Max.	60.7	57.6	
Yield			in²/lb	Target	40530	38503	
				Min.	38600	36670	
				Max.	42663	40530	
				Target	N	NA	
Surface Treatment	Т	ASTM D 2578	dinas/cm	Min.	NA		
		T ASTM D 1894		Target	0.30		
Coefficient of Friction	NT		_	Min.	0.24		
				Max.	0.36		
		O	otical Properties		I		
				Target	1	1.8	
Haze		ASTM D 1003	%	Max.	2.5		
		ASTM D 2457	u.b.	Target	g	95	
Gloss (45°)				Min.	85		
		Mec	hanical Propertie	S			
	MD	ASTM D 882	N/mm²		170		
	TD			Target	300		
Tensile Strenght	MD		lbf/in²		24656		
	TD			Target	43511		
	MD	_	%		150		
Elongation at Break	TD	ASTM D 882		Target	50		
-	MD				9		
Shrinkage	TD	ASTM D 1204		Target	10		
		ASTM F 88	°C	Target	105	- 130	
Sealing Range	NT		°F	Target		- 266	
			g/25mm or	Target	470		
Sealing Strenght NT		ASTM F 88	g/25mm or gf/in	Min.	300		
			arrier Properties				
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	cm ³ O ₂ / (m ² .dia)	Target	≤ 2100		
		ASTM D 3985	cm³ O ₂ / (100in².day)	you	≤ 135		

1	Acr	on	ym	s:

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

20TFCHSK30

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

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.