

# POLO TSY HTS

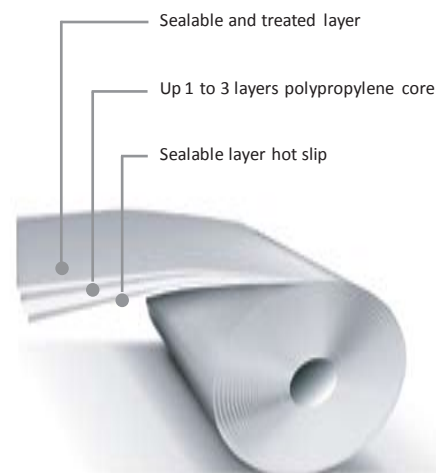
**Bi-oriented coex polypropylene film, transparent, heat-sealable with hot slip property**

## MAIN CHARACTERISTICS

Two-side heat-sealable BOPP film, transparent with hot slip property, one side treated for printing usage both gravure and flexography techniques as well as lamination of excellent performance at VFFS and HFFS machines placed under warmed environment.

## APPLICATIONS

Monolayer or laminate structures for flexible packaging of biscuits, snacks, coffee, cereal bars, and general decorative applications that require VFFS and HFFS machines placed under warmed environment.



## TYPICAL PROPERTIES

Characteristics		Methodology	Unit	20 TSY HTS	25TSY HTS
Thickness		DIN 53370	gauge micron	80 20.0	100 25.0
Unit Weight		ASTM D 4321	lb/ream g/m <sup>2</sup>	11.1 18.1	13.9 22.6
Yield		ASTM D 4321	in <sup>2</sup> /lb m <sup>2</sup> /kg	39000 55.2	31000 44.2
Tensile Strength	MD TD	ASTM D 882	lbf/in <sup>2</sup> N/mm <sup>2</sup> lbf/in <sup>2</sup> N/mm <sup>2</sup>	20370 140 34920 240	20370 140 34920 240
Elongation at break	MD TD	ASTM D 882	%	170 50	170 50
Gloss (45°)		ASTM D 2457	-	90	90
Haze		ASTM D 1003	%	1.6	1.6
Sealing Range	Film/Film Untreated/Untreated	ASTM F 88	°C	105 - 130	105 - 130
Sealing Strength	Film/Film Untreated/Untreated	ASTM F 88	g/in	450	480
Shrinkage	MD TD	ASTM D 1204	%	3 1	3 1
COF	Film/Film Untreated/Untreated	ASTM D 1894	-	0.25	0.25
Surface treatment	Internal External	ASTM D 2578	Dynes/cm	Absent Min. 38	Absent Min. 38
WVTR	73F/90%RH 38°C/90%RH	ASTM F 1249	g H <sub>2</sub> O/(100in <sup>2</sup> .24hs) g H <sub>2</sub> O/(m <sup>2</sup> .day)	0.48 7.5	0.39 6.0
OTR	73F/760 mm Hg 23°C / 1 atm	ASTM D 3985	cc O <sub>2</sub> /(100sq in <sup>2</sup> .24hs) cm <sup>3</sup> O <sub>2</sub> /(m <sup>2</sup> .day)	190 2900	150 2300

## SUPPLY SPECIFICATIONS

Width	0/+2 mm or 0/+ 0.08 inches from standard width
Outside diameter	- 30 mm or 1.18 inches from standard diameter + 20 mm or 0.8 inches from standard diameter
Core	Core: 153 mm or 6.0 inches / 77 mm or 3.0 inches Tolerance: ±1 mm or ± 0.04 inches
Number of splice per reel	Maximum 2
Percentage of splices per order	Maximum 30%



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For new thicknesses or application , please consult a Polo Film's specialist".