

POLO TSY

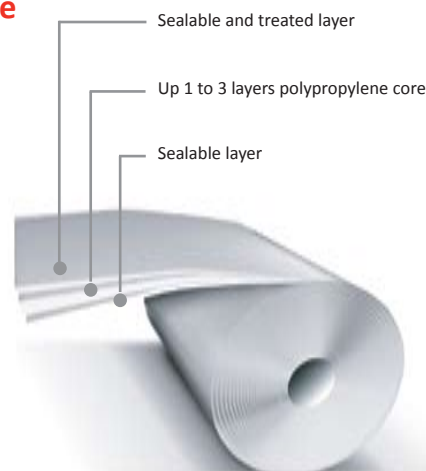
Bi-oriented coex polypropylene film, transparent and heat-sealable

MAIN CHARACTERISTICS

Two-side heat-sealable BOPP film with one side treated for printing usage both gravure and flexography techniques as well as lamination of excellent performance at VFFS and HFFS machines. May be one or two sides treated.

APPLICATIONS

Monolayer or laminate structures for flexible packaging of biscuits, snacks, coffee, pasta, cereal bars, confectionery, ice-cream and general decorative applications.



TYPICAL PROPERTIES

Characteristics		Methodology	Unit	15 TSY	17 TSY	20 TSY	25 TSY	30 TSY	35 TSY	40 TSY
Thickness		DIN 53370	gauge micron	60 15.0	65 17.0	80 20.0	100 25.0	120 30.0	140 35.0	160 40.0
Unit Weight		ASTM D 4321	lb/ream g/m ²	8.3 13.6	9.5 15.4	11.1 18.1	13.9 22.6	16.7 27.2	19.5 31.7	22.2 36.2
Yield		ASTM D 4321	in ² /lb m ² /kg	51800 73.7	45800 65.0	39000 55.2	31000 44.2	26000 36.8	22000 31.5	19000 27.6
Tensile Strength	MD TD	ASTM D 882	lbf/in ² N/mm ² lbf/in ² N/mm ²	20300 140 34900 240	20300 140 34900 240	20300 140 34900 240	20300 140 34900 240	20300 140 34900 240	20300 140 34900 240	20300 140 34900 240
Elongation at break	MD TD	ASTM D 882	%	170 50	170 50	170 50	170 50	180 60	180 60	180 60
Gloss(45°)		ASTM D 2457	-	90	90	90	90	90	90	90
Haze		ASTM D 1003	%	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Sealing Range	Film/Film Untreated/Untreated	ASTM F 88	°C	105-130	105-130	105-130	105-130	105-130	105-130	105-130
Sealing Strength	Film/Film Untreated/Untreated	ASTM F 88	g/in	380	400	450	480	500	550	580
Shrinkage	MD TD	ASTM D 1204	%	3 1	3 1	3 1	3 1	3 1	3 1	3 1
COF	Film/Film Untreated/Untreated	ASTM D 1894	-	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Surface treatment	Internal/External	ASTM D 2578	Dynes/cm	Absent Min.38	Absent Min.38	Absent Min.38	Absent Min.38	Absent Min.38	Absent Min.38	Absent Min.38
WVTR	73F/90%RH 38°C/90%RH	ASTM F 1249	gH ₂ O/(100in ² .24hs) gH ₂ O/(m ² .day)	0.55 8.5	0.55 8.5	0.48 7.5	0.39 6.0	0.32 5.0	0.26 4.0	0.22 3.5
OTR	73F/760 mm Hg 23°C / 1 atm	ASTM D 3985	ccO ₂ /(100sqin ² .24hs) cm ³ O ₂ /(m ² .day)	225 3500	210 3200	190 2900	150 2300	125 1900	100 1500	85 1300

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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