

# POLO THB

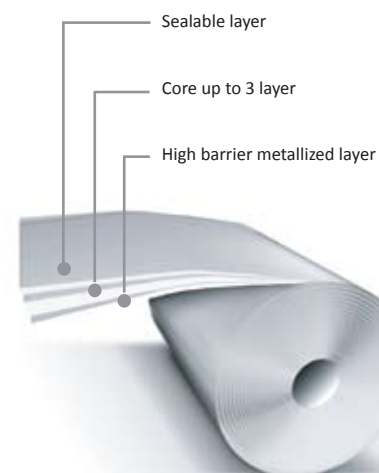
## Bi-oriented metallized polypropylene film high barrier and heat-sealable

### MAIN CHARACTERISTICS

Metallized BOPP film with high barrier for water vapour and oxygen properties, with one side metallized treated for printing and lamination and other side heat-sealable. May be one or two sides treated.

### APPLICATIONS

Monolayer and laminate structures for flexible packaging of biscuits, snacks, cereal bars, milk powder, PSD's and powdered soups that require water vapour and oxygen barriers.



### TYPICAL PROPERTIES

Characteristics		Methodology	Unit	17 THB	20 THB
Thickness		DIN 53370	gauge micron	65 17.0	80 20.0
Unit Weight		ASTM D 4321	lb/ream g/m <sup>2</sup>	9.5 15.4	11.1 18.1
Yield		ASTM D 4321	in <sup>2</sup> /lb m <sup>2</sup> /kg	45700 65	39000 55.2
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
Sealing Strength	Film/Film Untreated/Untreated	ASTM F 88	g/in	400	400
Shrinkage	MD TD	ASTM D 1204	%	3 1	3 1
COF	Film/Film Untreated/Untreated	ASTM D 1894	-	0.35	0.35
Surface treatment	Outer side Inner side (metal side)	ASTM D 2578	Dynes/cm	Absent > 36 <sup>(1)</sup>	Absent > 36 <sup>(2)</sup>
WVTR	73F/90%RH 38°C/90%RH	ASTM F 1249	gH <sub>2</sub> O/(100in <sup>2</sup> .24hs) gH <sub>2</sub> O/(m <sup>2</sup> .day)	0.01 <sup>(2)</sup> 0.20 <sup>(2)</sup>	0.01 <sup>(1)</sup> 0.20 <sup>(1)</sup>
OTR	73F/760 mm Hg 23°C / 1 atm	ASTM D 3985	ccO <sub>2</sub> /(100sq in <sup>2</sup> .24hs) cm <sup>3</sup> O <sub>2</sub> /(m <sup>2</sup> .day)	1.93 <sup>(2)</sup> 30 <sup>(2)</sup>	1.93 <sup>(1)</sup> 30 <sup>(1)</sup>

<sup>(1)</sup> Typical values

<sup>(2)</sup> Minimum superficial tension guaranteed for 60 days on the metallized side  
OBS.: for films treated in both sides (20THB13), non metallized face surface treatment > 38 dynes/cm.

### 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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