

# POLO TMT

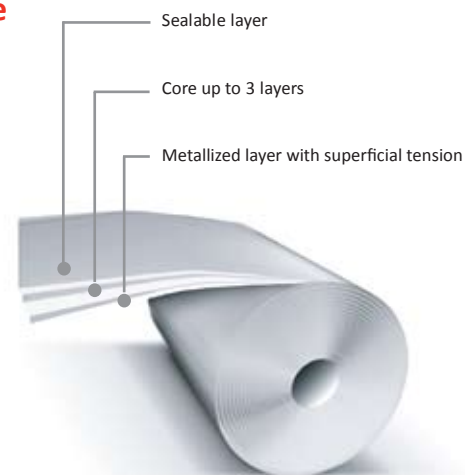
**Bi-oriented metallized polypropylene polypropylene film with one face treated for printing and lamination and other heat-sealable**

## MAIN CHARACTERISTICS

Metallized BOPP film 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 applied for roll label bottles, printing on metallized surface, paper or paper board lamination and general graphics applications.



## TYPICAL PROPERTIES

Characteristics	Methodology	Unit	20 TMT	30 TMT
Thickness	DIN 53370	gauge	80	120
		micron	20.0	30.0
Unit Weight	ASTM D 4321	lb/ream	11.1	16.7
		g/m <sup>2</sup>	18.1	27.2
Yield	ASTM D 4321	in <sup>2</sup> /lb	39000	26000
		m <sup>2</sup> /kg	55.2	36.8
Tensile Strength	MD TD ASTM D 882	lb/in <sup>2</sup>	20370	20370
		N/mm <sup>2</sup>	140	140
		lb/in <sup>2</sup>	34920	34920
		N/mm <sup>2</sup>	240	240
Elongation at break	MD TD ASTM D 882	%	170	180
			50	60
Sealing Strength	Film/Film Untreated/Untreated ASTM F 88	g/in	400	400
Shrinkage	MD TD ASTM D 1204	%	3	3
			1	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>(2)</sup>	Absent > 36 <sup>(2)</sup>
WVTR	73F/90%RH 38°C/90%RH ASTM F 1249	g H <sub>2</sub> O/(100 in <sup>2</sup> .24hs)	0.03 <sup>(1)</sup>	0.03 <sup>(1)</sup>
		g H <sub>2</sub> O/(m <sup>2</sup> .day)	0.40 <sup>(1)</sup>	0.40 <sup>(1)</sup>
OTR	73F/760 mm Hg 23°C / 1 atm ASTM D 3985	cc O <sub>2</sub> /(100 sq in <sup>2</sup> .24hs)	5.1 <sup>(1)</sup>	5.1 <sup>(1)</sup>
		cm <sup>3</sup> O <sub>2</sub> /(m <sup>2</sup> .day)	80 <sup>(1)</sup>	80 <sup>(1)</sup>

(1) Typical values

(2) Minimum superficial tension guaranteed for 60 days on the metallized side

## 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%

"The restrained information in this catalog represent typical data, and does not constitute genuine warranty liability as far as the product process and or application. For new thicknesses or application, please consult a Polo Film's specialist".



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