

# POLO TMA

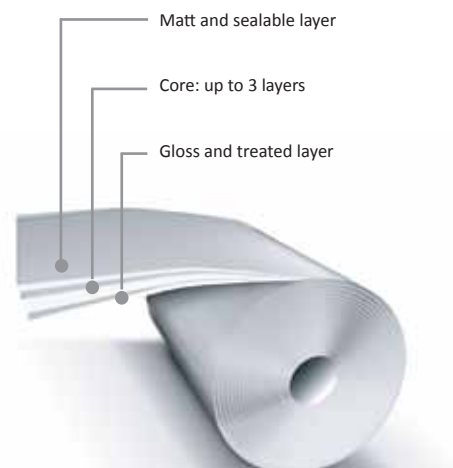
**Biaxially orientated polypropylene matt and sealable film.**

## MAIN CHARACTERISTICS

- Excellent printability on the gloss side;
- Sealable on the matt side;
- Velvety appearance promoted by the matt side.

## APPLICATIONS

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



## TYPICAL PROPERTIES

Characteristics	Methodology	Unit	20 TMA 12	
Thickness	DIN 53370	gauge	80	
		micron	20.0	
Unit Weight	ASTM D 4321	lb/ream	10.7	
		g/m <sup>2</sup>	17.4	
Yield	ASTM D 4321	in <sup>2</sup> /lb	40400	
		m <sup>2</sup> /kg	57.5	
Tensile Strength	MD TD	ASTM D 882	lb/in <sup>2</sup>	20370
			N/mm <sup>2</sup>	140
			lb/in <sup>2</sup>	34920
			N/mm <sup>2</sup>	240
Elongation at break	MD TD	ASTM D 882	%	170
				50
Gloss(45°)	Gloss side Matt side	ASTM D 2457	-	55
				10
Haze	ASTM D 1003	%	70.0	
Sealing Strength	Matt side	ASTM F 88	g/in	400
Sealing Range	Matt side	ASTM F 88	°C	105 - 125
			°F	221 - 257
Shrinkage	MD TD	ASTM D 1204	%	3
				1
COF	Matt side Matt side	ASTM D 1894	-	0.30
				0.35
Surface treatment	Matt side Matt side	ASTM D 2578	Dynes/cm	No treated
				≥ 38
WVTR	73F/90%RH 38°C/90%RH	ASTM F 1249	g H <sub>2</sub> O/100 in <sup>2</sup> .24hs	0.48
			g H <sub>2</sub> O/m <sup>2</sup> .day	75
OTR	73F/760 mm Hg/ 0% RH 23°C / 1 atm / 0% RH	ASTM D 3985	cc O <sub>2</sub> /100 sq in <sup>2</sup> .24hs	186
			cm <sup>3</sup> O <sub>2</sub> /m <sup>2</sup> .day	2900

## 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: 152,4 mm or 6,0 inches / 76,2mm 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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