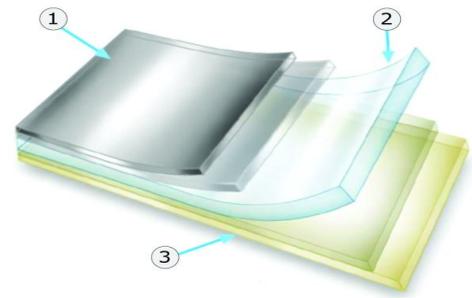


## BIAXIALLY ORIENTED POLYPROPYLENE FILM

TSSe is a transparent one side treated, both sides sealable coextruded BOPP film with anti static properties and low coefficiente of friction



1 - HEAT SEALABLE TREATED SURFACE  
2 - PP HOMOPOLYMER  
3 - HEAT SEALABLE SURFACE

## APPLICATION

Printing and laminations for general food packaging such as snacks, cookies/crackers, confections, cereal bars, ice creams.

## TYPICAL VALUES

Properties	Units	Typical Values							Method
		T15SSe	T17SSe	T20SSe	T25SSe	T30SSe	T35SSe	T40SSe check-in	
THICKNESS	Gauge	59,0	67,0	79,0	98,0	118,0	138,0	157,0	ASTM D4321
YIELD	in <sup>2</sup> /lb	51675,0	45629,0	38879,0	31075,0	25943,0	22217,0	19405,0	ASTM D4321
GLOSS EXTERNAL	u.b.	84,0	84,0	84,0	84,0	84,0	84,0	84,0	ASTM 2457
HAZE	%	1,5	1,7	2,0	2,2	2,4	2,6	2,8	ASTM D1003
SURFACE TENSION	dynas/cm	> 38	> 38	> 38	> 38	> 38	> 38	> 38	ASTM D2578
SEAL STRENGTH NT/NT	N/15mm	2,3	2,5	2,7	3,2	3,6	3,9	4,6	ASTM F88
	gf/pol	397,0	432,0	466,0	552,0	621,0	673,0	794,0	
SEALING INITIATION TEMPERATURE NT/NT	°F	222,0	222,0	222,0	222,0	222,0	222,0	222,0	ASTM F88
COF NT/NT	NA	0,20	0,25	0,25	0,25	0,25	0,25	0,25	ASTM D1894
SHRINKAGE MD	%	1,5	1,5	1,5	1,5	1,5	1,5	1,5	ASTM D1204
SHRINKAGE TD	%	0,0	0,0	0,0	0,0	0,0	0,0	0,0	ASTM D1204
ELONGATION MD	%	190,0	190,0	190,0	190,0	190,0	190,0	190,0	ASTM D882
ELONGATION TD	%	50,0	45,0	50,0	50,0	50,0	50,0	50,0	ASTM D882
TENSILE STRENGTH MD	Psi	23200,0	23200,0	23200,0	23200,0	23200,0	23200,0	23200,0	ASTM D882
TENSILE STRENGTH TD	Psi	43500,0	43500,0	43500,0	43500,0	43500,0	43500,0	43500,0	ASTM D882
WVTR	g/100in <sup>2</sup> /24h	0,55	0,52	0,41	0,38	0,30	0,26	0,22	ASTM F1249
	(g/m <sup>2</sup> .dia)	(8,5)	(8,0)	(6,4)	(5,9)	(4,7)	(4,0)	(3,5)	

## Observations

1-The values described above may not be taken as the product specifications values. These values are based on the average or typical values generated at the time of production and should be considered as a reference only.

2- The films have their treatment at external side of the slit roll. Tecnoval is able to produce slit rolls with treatment at internal side under previously consulting to Commercial Area.

3- The technical information in this publication are based on our experience and are general. Users are suggested to conduct their own tests to determine suitability of these products for their own particular uses. The user is solely responsible for all determination regarding any use of the material or product and process in its interest.

Abbreviations: MD - Machine Direction; DT - Transversal Direction; E - External Side; NT - Non treated side.

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