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## TECHNICAL DATA SHEET

### BIORIENTED POLYPROPYLENE FILM TWO –SIDE HEAT SEALABLE ONE- SIDE TREATED

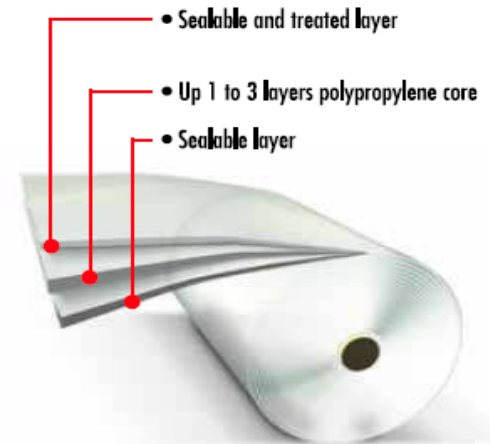
#### TSY

#### MAIN CHARACTERISTICS

Two-side heat-sealable BOPP film, transparent 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	ASTM Method	Unit	17 TSY	20 TSY	25 TSY	30 TSY	35 TSY	40 TSY
Thickness	DIN 53370	µm	17,0	20,0	25,0	30,0	35,0	40,0
Unit Weight	ASTM D 4321	g/m <sup>2</sup>	15,4	18,1	22,6	27,2	31,7	36,2
Yield	ASTM D 4321	m <sup>2</sup> /kg	64,9	55,2	44,2	36,8	31,5	27,6
Density	ASTM D 4321	g/cm <sup>3</sup>	0,905	0,905	0,905	0,905	0,905	0,905
Tensile Strength	DM	N/mm <sup>2</sup>	140	140	140	140	140	140
	DT		240	240	240	240	240	240
Elongation	DM	%	180	180	180	190	190	190
	DT		60	60	60	70	70	70
Gloss (45°)	ASTM D 2457	—	90	90	90	90	90	90
Haze	ASTM D 1003	%	2,0	2,0	2,0	2,0	2,0	2,0
Shrinkage	DM	%	4	4	4	4	4	4
	DT		2	2	2	2	2	2
Sealing Range	Film/Film NT/NT	ASTM F 88	105 - 130	105 - 130	105 - 130	105 - 130	105 - 130	105 - 130
Sealing Strength		ASTM F 88	400	450	480	500	550	580
COF	Film/Film NT/NT	ASTM D 1894	—	0,25	0,25	0,25	0,25	0,25
Surface Treatment	Internal	ASTM D 2578	Dynes/cm	Absent	Absent	Absent	Absent	Absent
	External			Min. 38	Min. 38	Min. 38	Min. 38	Min. 38
WVTR 38° C/90% RH		ASTM F 1249-01	g H <sub>2</sub> O/m <sup>2</sup> /day	8,5	7,5	6,0	5,0	4,0
OTR 23° C/1 atm		ASTM D 3985	cm <sup>3</sup> O <sub>2</sub> /m <sup>2</sup> /day	3.200	2.900	2.300	1.900	1.500

Obs.: This film can be supplied with both sides treatment.

MD Machine direction

TD Transverse direction

## NOTE:



The above-mentioned data have been obtained using standard test procedures on defined specimens, and are provided in good faith.

These results should therefore be regarded only as a general guide to material properties. It is for the customer to determine / decide a product's suitability for his / her own particular purpose. **IMPEX GLOBAL FILMS** does not claim and responsibility of the product for any particular purpose.