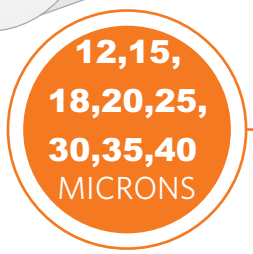
TECHNICAL DATA SHEET

TOPPAN

TI-P

BOPP FILMS

TRANSPARENT NON SEALABLE CORONA TREATED ONE SIDE BOPP FILM FOR CONVERSION



AVAILABLE CALIPERS

DESCRIPTION

TI-P is transparent high gloss non-heat sealable one side corona treated **BOPP** film. This film is specially designed for printing and lamination process.

PRODUCT FEATURES

- Outstanding clarity and gloss
- Can be laminated with other substrates
- Printable/gluable
- Robust Machinability
- Low static
- Excellent wetting tension
- Excellent wetting tension
- Suitable for food contact applications
- Water/oil/grease repellent

APPLICATIONS

Can be used as outside web of laminates / Higher microns can be used as mono-web

- Bakery (Biscuits/cookie/crackers)
- Confectionery(chocolates/gum/sugar)
- Chips/tea/coffee/pasta
- Miscellaneous industrial and house hold applications

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	PROPERTIES	POSITION	T12TI -P	T15TI -P	T18TI -P	T20TI -P	T25TI -P	T30TI -P	T35TI -P	T40TI -P	UNIT	METHOD
GENERAL	Nominal Thickness	-	12	15	18	20	25	30	35	40	µ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	10.92	13.65	16.38	18.2	22.75	27.3	31.8	36.4	g/m^2	Internal Method
	Yield	-	91.6	73.3	61.1	54.9	44.0	36.6	31.4	27.5	m^2/kg	Internal Method
OPTICAL	Haze	-	1.5	1.5	1.5	1.8	1.8	2.0	2.0	2.0	%	ASTM D 1003
	Gloss	-					90				GU	ASTM D 2457
SURFACE	COF (Dynamic)	Film/Film					0.40				-	ASTM D 1894
	Wetting Tension	-					38*				dy/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD					1300				kg/cm^2	ASTM D 882
		- TD					2700					
	Elongation (at break)	- MD					190				%	ASTM D 882
		- TD					60					
	Elastic Modulus	- MD					18000				kg/cm^2	ASTM D 882
		- TD					32000					
THERMAL	Linear Shrinkage (max)	- MD					5				%	ASTM D 1204
		- TD					3					

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within three months of receipt. OPP films should be allowed to reach operating room temperature 24 hours before use.

FOOD CONTACT

OPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.

SAFETY

Compliance with industrial health and safety standards. OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

CAUTIONS

- Film characteristics are maintained for six months from the date of invoicing

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