

**TIC**  
BOPP FILMS

## TRANSPARENT NON SEALABLE CORONA TREATED ONE SIDE BOPP FILM FOR EASY COLD SEAL RELEASE APPLICATION



Corona Treated Surface  
OPP Core  
Modified Surface for Easy Cold Seal Release



AVAILABLE  
CALIPERS

**DESCRIPTION**

OPP TIC is transparent high gloss one side corona treated non heat sealable **BOPP** film, specifically designed for easy cold seal release as outer web of laminates.

**PRODUCT FEATURES**

- Excellent ink adhesion on the treated surface
- Excellent release from cold seal adhesives
- Outstanding clarity and gloss
- Printable/gluable
- Robust Machinability
- Suitable for food contact applications
- Water/oil/grease repellent

**APPLICATIONS**

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

**NOMENCLATURE**

TIC... Corona treated surface is Inside & Outside Surface is Cold Seal Release  
TOC... Corona treated surface is Outside & Inside Surface is Cold Seal Release

# TECHNICAL DATA SHEET

**TOPPAN**

PROPERTIES	POSITION	T12TIC	T15TIC	T18TIC	T19TIC	T20TIC	UNIT	METHOD
GENERAL	Nominal Thickness	-	12	15	18	19	20	µ
	Density	-	0.91	0.91	0.91	0.91	0.91	g/cc
	Grammage	-	10.92	13.65	16.4	17.3	18.2	g/m <sup>2</sup>
	Yield	-	91.6	73.3	61.0	57.8	54.9	m <sup>2</sup> /kg
OPTICAL	Haze	-			2		%	ASTM D 1003
	Gloss	-			90		GU	ASTM D 2457
SURFACE	Dynamic COF	Film/Film			0.20 - 0.30		-	ASTM D 1894
	Wetting Tension	-			38*		dyne/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD			1300		kg/cm <sup>2</sup>	ASTM D 882
		- TD			2700			
	Elongation (at break)	- MD			180		%	ASTM D 882
		- TD			60			
THERMAL	Elastic Modulus	- MD			18000		kg/cm <sup>2</sup>	ASTM D 882
		- TD			28000			
THERMAL	Linear Shrinkage (max)	- MD			5		%	ASTM D 1204
		- TD			3			

\* 38 dyne/cm guaranteed for 6 months from the invoice date in controlled ambient condition as mentioned in storage guidelines.

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 except for corona treated layer surface tension.