

**TTPF****BOPP FILMS**

TRANSPARENT NON SEALABLE BOTH SIDES CORONA TREATED FOR PRINT FINISH APPLICATION

**DESCRIPTION**

OPP TPF is transparent non sealable **BOPP** film having both sides corona treated gloss surface. It is developed for providing protection and good presentation to printed material.

**PRODUCT FEATURES**

- Outstanding clarity and gloss
- Can be laminated with other substances
- Printable/gluable
- Robust Machinability
- Low static
- Excellent wetting tension
- Suitable for food contact applications
- Water/Oil/Grease resistant

**APPLICATIONS**

To be laminated on various type of printed/unprinted items for providing long life and good presentation

- Posters
- Carton box
- Maps
- Magazines/books
- Folios'
- Certificates and important documents etc.

	PROPERTIES	POSITION	T10TTPF	T12TTPF	T13TTPF	T15TTPF	UNIT	METHOD
GENERAL	Nominal Thickness	-	10	12	13	15	μ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	9.1	10.92	11.83	13.65	g/m <sup>2</sup>	Internal Method
	Yield	-	109.9	91.6	84.5	73.3	m <sup>2</sup> /kg	Internal Method
SURFACE OPTICAL	Haze	-	2	2	2	2.2	%	ASTM D 1003
	Gloss	-	95	95	95	95	GU	ASTM D 2457
	COF (Dynamic)	Film/Film	0.40	0.40	0.40	0.40	-	ASTM D 1894
	Wetting Tension	-	38*	38*	38*	38*	dyne/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD	1300	1300	1300	1300	kg/cm <sup>2</sup>	ASTM D 882
		- TD	2800	2800	2800	2800		
	Elongation (at break)	- MD	160	160	160	160	%	ASTM D 882
		- TD	60	60	60	60		
THERMAL	Elastic Modulus	- MD	18000	18000	18000	18000	kg/cm <sup>2</sup>	ASTM D 882
		- TD	36000	36000	36000	36000		
	Linear Shrinkage (max)	- MD	4	4	4	4	%	ASTM D 1204
		- TD	2	2	2	2		

\* 38 dyne/cm guaranteed for 3 months from delivery in controlled ambient conditions as per 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 wetting tension