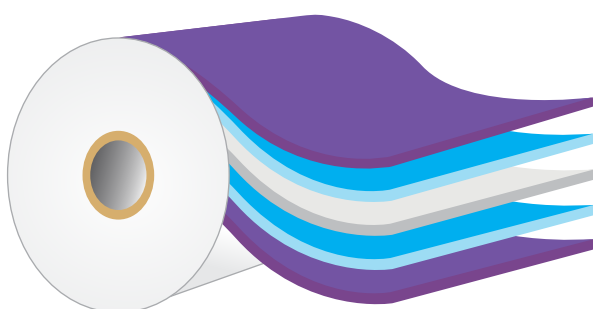


PROVISIONAL

P33TOWL1

BOPP FILMS

CAVITATED 33 μ ONE SIDE CORONA TREATED FOR WRAP AROUND LABELS



Corona Treated Glossy, Heat Seal Surface
Tie Layer

White Cavitated OPP Core

Tie Layer

Untreated Adhesive Receptive, Heat Seal Surface



AVAILABLE
CALIPERS

DESCRIPTION

P33TOWL1 is white cavitated 0.65 density high gloss five layer BOPP film developed for reel fed wrap-around labelling applications. It is designed to optimize performance on the most demanding machines and superior graphics.

PRODUCT FEATURES

- Excellent slip for robust performance on the labelling machines
- High yield due to low density
- Printable/glueable
- High resistance to elongation on labelling machine
- Consistently low coefficient of friction and good anti-static properties
- Outstanding opacity and whiteness
- Superb gloss
- Excellent web flatness
- Suitable for "Rotogravure & Flexographic" printing

APPLICATIONS

Reel-Fed Wrap Around Labels

- Beverage (carbonated, alcoholic, mineral water)
- Dairy Products
- House hold and detergents
- Health and beauty care

TOPPAN SPECIALITY FILMS

PROVISIONAL

	PROPERTIES	POSITION	P33TOWL1	UNIT	METHOD
GENERAL	Nominal Thickness	-	33	μ	Internal Method
	Density	-	0.65	g/cc	Internal Method
	Grammage	-	21.5	g/m ²	Internal Method
	Yield	-	46.5	m ² /kg	Internal Method
SURFACE OPTICAL	Transmittance	-	30	%	ASTM D 1003
	Gloss	-	50	GU	ASTM D 2457
	COF (Dynamic)	-	0.3	-	ASTM D 1894
	Wetting tension	-	38*	dyne/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD - TD	700 1700	kg/cm ²	ASTM D 882
	Elongation (at break)	- MD - TD	140 36	%	ASTM D 882
	Elastic Modulus	- MD - TD	10000 21000	kg/cm ²	ASTM D 882
	Linear Shrinkage	- MD - TD	4 1	%	ASTM D 1204

* 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 manufacturing except for wetting tension