

## TTTWL

TRANSPARENT BOTH SIDE TREATED, ONE SIDE HIGH CORONA TREATED  
FOR WRAP AROUND LABELS



### DESCRIPTION

TTTWL is transparent high gloss BOPP film developed for reel fed wrap-around labelling applications. It is designed for optimized performance on the most demanding labelling machines and superior graphics.

### PRODUCT FEATURES

- High slip for robust performance on the labelling machines
- Excellent hot melt anchorage
- No Label Look
- Printable/gluable
- High resistance to elongation on labeling machine
- Consistently low coefficient of friction and good anti-static properties
- 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

	PROPERTIES	POSITION	T25TTIWL	T30TTIWL	T38TTIWL	UNIT	METHOD
GENERAL	Nominal Thickness	-	25	30	38	μ	Internal Method
	Density	-	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	22.7	27.3	34.6	g/m <sup>2</sup>	Internal Method
	Yield	-	44.0	36.6	28.9	m <sup>2</sup> /kg	Internal Method
OPTICAL	Haze	-		2.5		%	ASTM D 1003
	Gloss	-		95		GU	ASTM D 2457
SURFACE	COF	Film/Film		0.30		-	ASTM D 1894
	Wetting Tension	-		38*		-	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD - TD		1300 2700		kg/cm <sup>2</sup>	ASTM D 882
	Elongation (at break)	- MD - TD		190 60		%	ASTM D 882
	Elastic Modulus	- MD - TD		18000 32000		kg/cm <sup>2</sup>	ASTM D 882
THERMAL	Linear Shrinkage	- MD - TD		4 2		%	ASTM D 1204

\* 38 dyne/cm guaranteed for 3 months from the invoice date in controlled ambient condition as per below 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