

PROVISIONAL

## TS20TIPE

BOPP FILMS

TRANSPARENT BIAXIALY ORIENTED POLYETHYLENE FILM WITH ONE SIDE CORONA TREATMENT



### DESCRIPTION

TSPE is transparent biaxially oriented PE film. It is one side corona treated for printing and other side with broad heat seal range and very high seal strength surface; Especially designed with excellent clarity, gloss and controlled thickness for demanding high speed packaging applications.

### PRODUCT FEATURES

- Easy Tear
- Outstanding seal performance in term of strength, hot-tack and integrity
- Good Puncture Resistance
- Excellent thickness spread, clarity and gloss mainly for Window application
- Superior Barrier Vis a Vis to traditional Blown PE
- Good Surface tension exhibits excellent Surface Printing

### APPLICATIONS

Can be used as top reverse Printed layer of laminate and sealant web of laminated structure as a replacement of CPP and Blown PE films;

- Bakery (Biscuits/cookie/crackers)
- Household and detergents
- Potato chips/snacks/crisp
- Frozen food

## PROVISIONAL

	PROPERTIES	POSITION	TS20TPE	UNIT	METHOD
GENERAL	Nominal Thickness	-	20	μ	Internal Method
	Density	-	0.97	g/cc	Internal Method
	Grammage	-	19.4	g/m <sup>2</sup>	Internal Method
	Yield	-	51.5	m <sup>2</sup> /kg	Internal Method
OPTICAL	Haze	-	4	%	ASTM D 1003
	Gloss	-	90	GU	ASTM D 2457
SURFACE	Dynamic COF	Film/Film	0.35	-	ASTM D 1894
	Surface tension	-	38	dyne/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD	300	kg/cm <sup>2</sup>	ASTM D 882
		- TD	1000		
	Elongation (at break)	- MD	500	%	ASTM D 882
		- TD	170		
	Elastic Modulus	- MD	5000	kg/cm <sup>2</sup>	ASTM D 882
		- TD	5800		
THERMAL	Linear Shrinkage	- MD %	3		ASTM D 1204
		- TD	7		
	Heat Seal Strength	Laminate (BOPP+ BOPE)	3	kg/25mm	Internal Method (130°C/1sec/30psi)
	Heat Seal Strength	Laminate (BOPP+BOPE)	5	kg/25mm	Internal Method (140°C/1sec/30psi)
BARRIER	WVTR 38° C, 90% RH	-	15	g/m <sup>2</sup> /day	ASTM F 1249

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