

## TS20TIPE

BOPP FILMS

TRANSPARENT BIAXIALLY 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

	PROPERTIES	POSITION	TS20TYPE	UNIT	METHOD
GENERAL	Nominal Thickness	-	0.79	mil	Internal Method
	Density	-	0.96	g/cc	Internal Method
	Grammage	-	3.93	lb/1000ft <sup>2</sup>	Internal Method
	Yield	-	36616	in <sup>2</sup> /lb	Internal Method
SURFACE OPTICAL	Haze	-	4	%	ASTM D 1003
	Gloss	-	90	GU	ASTM D 2457
	Dynamic COF	Film/Film	0.40	-	ASTM D 1894
MECHANICAL	Surface tension	-	38	dyne/cm	ASTM D 2578
	Tensile Strength (at break)	- MD	6541	psi	ASTM D 882
		- TD	14220		
	Elongation (at break)	- MD	400	%	ASTM D 882
THERMAL		- TD	120		
	Elastic Modulus	- MD	71117	psi	ASTM D 882
		- TD	85340		
THERMAL	Linear Shrinkage	- MD	3	%	ASTM D 1204
		- TD	2		
THERMAL	WVTR 100° F, 90% RH	-	1.18	g/100in <sup>2</sup> /24hr	ASTM F 1249
	OTR 73 ° F, 0% RH	-	> 327*	cc/100in <sup>2</sup> /24hr	ASTM D 3985

\* The OTR value is more than instrument measurement capability; Exact OTR value is yet not available.

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