

## PROVISIONAL

## TDSTIPE

## BOPE FILMS

TRANSPARENT LOW SIT HIGH HSS BIAXIALLY ORIENTED POLYETHYLENE FILM  
WITH ONE SIDE CORONA TREATMENT



## DESCRIPTION

TDSPE is transparent biaxially oriented PE film. It is one side corona treated for printing and other side Low Seal Initiation temperature 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

- Wide sealing range with low seal initiation temperature (SIT ~ 102°C)
- 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 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	TDS20TYPE	TDS25TYPE	UNIT	METHOD
GENERAL	Nominal Thickness	-	20	25	μ	Internal Method
	Density	-	0.95	0.95	g/cc	Internal Method
	Grammage	-	19.0	23.75	g/m <sup>2</sup>	Internal Method
	Yield	-	52.6	42.1	m <sup>2</sup> /kg	Internal Method
OPTICAL	Haze	-	4.0		%	ASTM D 1003
	Gloss	-	90		GU	ASTM D 2457
SURFACE	Surface tension	-	38		dyne/cm	ASTM D 2578
	Dynamic COF	Film/Film	0.35		-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	- MD - TD	450 900		kg/cm <sup>2</sup>	ASTM D 882
	Elongation (at break)	- MD - TD	300 100		%	ASTM D 882
	Elastic Modulus	- MD - TD	4000 10000		kg/cm <sup>2</sup>	ASTM D 882
	Linear Shrinkage	- MD - TD	4.5 2.0		%	ASTM D 1204
THERMAL	Heat Seal Strength	Laminate (BOPP+BOPE)	3000		g/25mm	Internal Method (130°C/1sec/30psi)
	Heat Seal Strength	Laminate (BOPP+BOPE)	5000		g/25mm	Internal Method (140°C/1sec/30psi)
	Heat Seal Range	-	102-145		°C	Internal Method
BARRIER	WVTR 38° C, 90% RH	-	28	25	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. OPE films should be allowed to reach operating room temperature 24 hours before use.

#### FOOD CONTACT

OPE films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.

#### SAFETY

Compliance with industrial health and safety standards. OPE 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