TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

TSTIESPL

TRANSPARENT HEATSEAL BOPP FILM SPECIAL CORONA TREATED LAYER FOR EXTRUSION LAMINATION & PACKAGING CONVERSION

Corona Treated Special Polymer Heat Seat Layer
OPP Core
Untreated Low SIT Heat Seal Layer

15,17,18, 20,25,30 Micron

AVAILABLE CALIPERS

DESCRIPTION

TSTIESPL is transparent co-extruded both side heat sealable **BOPP** film with Low Initiation Temperature on one side and corona treated on other side. Untreated heat-seal surface have good seal strength on low Initiation temperature and broad sealing range which gives optimum performance on wide range of packaging machines. This film is specially designed for Extrusion lamination.

PRODUCT FEATURES

- Good sealing properties
- Good printability and suitable for lamination with other substrates
- Suitable for Adhesive & Extrusion lamination process
- Good runnability on HFFS and VFFS machines
- Good Optical properties
- Lap sealable, non-toxic
- Good stiffness and mechanical properties

APPLICATIONS

To be used as top layer reverse printed layer in laminate structures;

- Confectionary (Chocolate/ Gum/ Sugar)
- Health & beauty care
- Bakery (Biscuits/cookie/crackers)
- Chips/ Snacks/ Pasta
- Household & detergent

NOMENCLATURE

TSTIESPL - Corona treated surface is Inside & Untreated Heat seal surface is Outside
TSTOESPL - Corona treated surface is Outside & Untreated Heat seal surface is Inside

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	PROPERTIES	REF.	15	17	18	20	25	30	UNITS	TEST METHOD
GENERAL	Thickness	-	15	17	18	20	25	30	µ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	0.91	0.91	g/cc	Internal Method
	GSM	-	13.7	15.5	16.4	18.2	22.8	27.3	gm/m^2	Internal Method
	Yield	-	73.3	64.6	61.1	54.9	44.0	36.6	m^2/kg	Internal Method
OPTICAL	Haze	-			2.5				%	ASTM D 1003
	Gloss	-			95				GU	ASTM D 2457
SURFACE	Wetting Tension	-			38				%	ASTM D 2578
	COF (Dynamic)	UT/UT			0.30				-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	MD TD			1300 2700				Kg/cm^2	ASTM D 882
	Elongation (at break)	MD TD			200 70				%	ASTM D 882
	Modulus	MD TD			18000 28000				Kg/cm^2	ASTM D 882
THERMAL	Thermal Shrinkage	MD TD			4 2				%	ASTM D 1204
	Heat seal range	-			105 - 145				°C	Internal Method
	Heat Seal Strength (1.0sec, 170N, 130°C)	-			350				g/25mm	Internal Method
BARRIER	WVTR (38°C, 90%rh)	-	8.5	8.5	8.5	8.0	6.0	5.5	$gm/m^2/d$	ASTM F 1249
	OTR (23°C, 0%rh)	-	2600	2400	2400	2300	2200	2200	$cc/m^2/d$	ASTM D 3985

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
- Please make sure printing surface is well dried before lamination

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