TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

TDS18TILW3

TRANSPARENT LOW HEAT SEAL TEMPERATURE, HIGH HOT-TACK & HIGH SEAL STRENGTH CORONA TREATED ONE SIDE WITH IMPROVED WATER BARRIER FOR HIGH SPEED PACKAGING APPLICATIONS

Corona Treated Heat Seat Layer
OPP Core
Untreated Very Low SIT Heat Seal Layer

18 Micron

AVAILABLE CALIPERS

DESCRIPTION

TDS18TILW3 is transparent co-extruded **BOPP** film, one side low seal initiation temperature (SIT ~ 95°C). Especially designed for high speed packaging where its wide seal operating window can be used on high speed machines. This film is specially developed for improved WVTR.

PRODUCT FEATURES

- Wide sealing range with low seal initiation temperature (SIT ~ 95°C)
- Excellent sealing properties in term of strength, hot-tack and integrity
- Excellent Water barrier property
- Good runnability on HFFS and VFFS machines
- Excellent seal integrity in presence of contaminants and humidity
- Good optical properties
- Good stiffness and mechanical properties
- Lap sealable

APPLICATIONS

Can be used as a single web or laminate structures;

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

NOMENCLATURE

TDS18TILW3 - Corona treated surface is Inside & Untreated Ultra Heat seal surface is Outside
TDS18TOLW3 - Corona treated surface is Outside & Untreated Ultra Heat seal surface is Inside

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	PROPERTIES	REF.	TDS18TILW3	UNITS	TEST METHOD
GENERAL	Thickness	-	18	µ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	GSM	-	16.4	gm/m^2	Internal Method
	Yield	-	61.1	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	0.40	-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	MD TD	1300 2700	Kg/cm^2	ASTM D 882
	Elongation (at break)	MD TD	190 60	%	ASTM D 882
	Modulus	MD TD	18000 32000	Kg/cm^2	ASTM D 882
THERMAL	Thermal Shrinkage	MD TD	4 2	%	ASTM D 1204
	Heat seal range	-	95 - 145	°C	Internal Method
	Heat Seal Strength (1.0sec, 170N, 130°C)	-	400	g/25mm	Internal Method
BARRIER	WVTR (38°C, 90%rh)	-	3.5	gm/m^2/d	ASTM F 1249

*38 dyne/cm guaranteed for 4 months from the invoice date in controlled ambient condition as mentioned in 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 invoicing
- Please make sure printing surface is well dried before lamination

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