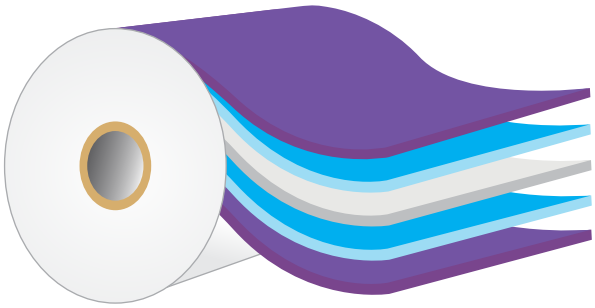
TECHNICAL DATA SHEET

TOPPAN

MTTI275A

BOPP FILMS

METALLISED NON SEALABLE BOTH SIDE TREATED ONE SIDE METALLISED HIGH BARRIER GRADE WITH IMPROVED ADHESION CHARACTERISTICS FOR PACKAGING CONVERSION



Treated Metallised Layer with Improved Adhesion Characteristics
OPP Tie
OPP Core
OPP Tie
Cold Seal Receptive Treated Layer

20, 28 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

OPP MTTI275A is High Barrier Metallised **BOPP** film. Its high energy metallised surface provides improved adhesion characteristics along with good moisture and gas barrier properties. Other side is developed for excellent cold seal application.

PRODUCT FEATURES

- Excellent metal adhesion and treatment retention
- High energy surface for improved adhesion characteristics
- Excellent cold seal receptive layer
- Excellent runnability on HFFS & VFFS machines
- Good moisture and oxygen barrier
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- Suitable for mono-web applications
- Good stiffness and mechanical properties

APPLICATIONS

Typically used as a inner web In laminates for VFFS & HFFS applications

- Confectionary (chocolate/gum/sugar)
- Bakery (Biscuits/cookie/crackers)
- Chips and snacks
- Dry food and powders
- Ice cream and frozen food

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	PROPERTIES	POSITION	M20TTI275A	M28TTI275A	UNIT	METHOD
GENERAL	Nominal Thickness	-	20	28	µ	Internal Method
	Density	-	0.91	0.91	g/cc	Internal Method
	Grammage	-	18.2	25.48	g/m^2	Internal Method
	Yield	-	54.9	39.2	m^2/kg	Internal Method
SURFACE OPTICAL	Optical Density	-	2.7	2.7	%	Internal Method
	Metal Adhesion	-	100	100	-	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD - TD	1300 2500	1300 2500	kg/cm^2	ASTM D 882
	Elongation (at break)	- MD - TD	200 60	200 60	%	ASTM D 882
	Elastic Modulus	- MD - TD	18000 30000	18000 30000	kg/cm^2	ASTM D 882
THERMAL	Linear Shrinkage (max)	- MD - TD	4 2	4 2	%	ASTM D 1204
BARRIER	WVTR 38°C, 90%rh	-	0.5	0.5	gm/m2/day	ASTM F 1249
	OXTR 23°C, 0%rh	-	100	100	cc/m2/day	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 except for metallized layer surface tension.
- Strongly recommend online corona treatment in metallised films during lamination as treatment level decay with time is a natural phenomenon which depends on ambient conditions (Recommended storage conditions: Temperature < 30 deg C & Humidity 55% (Maximum) in original packed condition).