TECHNICAL DATA SHEET

TOPPAN

MSFO275

BOPP FILMS

METALLISED HEAT SEALABLE OUTSIDE METALLISED ULTRA HIGH BARRIER GRADE BOPP FILM FOR PACKAGING CONVERSION

15, 18, 20, 25, 30 MICRONS — AVAILABLE CALIPERS

DESCRIPTION

OPP MSFO275 is Ultra high barrier metallised **BOPP** film. It is metallised on one side and heat sealable on other side having good moisture and gas barrier properties. It is lap sealable when laminated with other coex. Due to its slip controlled broad seal surface this film perform well on all types of HFFS &VFFS machines.

PRODUCT FEATURES

- Excellent metal adhesion and treatment retention
- Good sealing properties
- Excellent runability on HFFS and VFFS machines
- Good moisture and oxygen barrier
- Brilliant metal appearance
- Good stiffness and mechanical properties

APPLICATIONS

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

- Confectionery (chocolate/gum/sugar)
- Bakery (biscuits/cookie/crackers)
- Chips and Snacks
- Dry food and powders
- Ice cream and frozen food

NOMENCLATURE

MSFI275 - Metallised surface is Inside & Heat seal surface is Outside
MSFO275 - Metallised surface is Outside & Heat seal surface is Inside

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	PROPERTIES	POSITION	MSF150275	MSF180275	MSF200275	MSF250275	MSF300275	UNIT	METHOD
GENERAL	Nominal Thickness	-	15	18	20	25	30	µ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	13.65	16.38	18.2	22.75	27.3	g/m^2	Internal Method
	Yield	-	73.3	61.1	54.9	44.0	36.6	m^2/kg	Internal Method
OPTICAL	Optical Density	-			2.7			-	Internal Method
	COF	**Seal/Seal**			**0.30**				**ASTM D 1894**
SURFACE	Metal Adhesion	-			100			%	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD			1300			kg/cm^2	ASTM D 882
		- TD			2800				
	Elongation (at break)	- MD			210			%	ASTM D 882
		- TD			60				
	Elastic Modulus	- MD			18000			kg/cm^2	ASTM D 882
		- TD			30000				
THERMAL	Linear Shrinkage (max)	- MD			4			%	ASTM D 1204
		- TD			2				
	Heat Seal Range	-			105-145			°C	Internal Method
	Seal Strength	-	300	300	300	350	350	g/25mm	Internal Method (130°C/1sec/30psi)
BARRIER	WVTR 38° C 90% rh	-			0.2			g/m^2/day	ASTM F 1249
	OXTR 23° C 0% rh	-			60			cc/m^2/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)

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