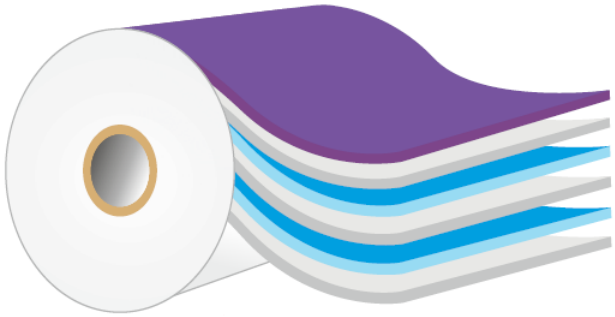
TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

MSF12I235

METALLISED HEAT SEALABLE INSIDE METALLISED HIGH BARRIER GRADE BOPP FILM FOR PACKAGING CONVERSION



Aluminium Layer
Treated, Metallizable Layer
Tie Layer
PP Core layer
Tie Layer
Heat Seal Layer

12 Micron

AVAILABLE CALIPERS

DESCRIPTION

OPP MSF12I235 is 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 co-ex. 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 runnability on HFFS & VFFS machines
- Good Oxygen & Moisture barrier
- Brilliant metal appearance
- Good stiffness and mechanical properties

APPLICATIONS

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

- Confectionary (Chocolate/ Gum/ Sugar)
- Ice cream & Frozen food
- Bakery (Biscuits/cookie/crackers)
- Chips and Snacks
- Dry food and powder

NOMENCLATURE

MSF12I235 - Metallised surface is Inside & Heat seal surface is Outside
MSF12O235 - Metallised surface is Outside & Heat seal surface is Inside

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	PROPERTIES	REF.	MSF12I235	UNITS	TEST METHOD
GENERAL	Thickness	-	12	µ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	GSM	-	10.92	gm/m^2	Internal Method
	Yield	-	91.6	m^2/kg	Internal Method
OPTICAL	Optical Density	-	2.3	-	Internal Method
SURFACE	Metal Adhesion	-	100	%	Internal Method
	COF	Seal / Seal	0.30	-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	MD TD	1300 2800	Kg/cm^2	ASTM D 882
	Elongation (at break)	MD TD	200 60	%	ASTM D 882
	Modulus	MD TD	18000 38000	Kg/cm^2	ASTM D 882
THERMAL	Thermal Shrinkage	MD TD	5 3	%	ASTM D 1204
	Heat seal range	-	105 - 145	°C	Internal Method
	Heat Seal Strength (1.0sec, 170N, 130°C)	-	250	gm/25mm	Internal Method
BARRIER	WVTR (38°C, 90%rh)	-	0.50	$gm/m^2/day$	ASTM F 1249
	OTR (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 metallized films during lamination as treatment level decay with time is a natural phenomenon which depends on ambient conditions (Recommended storage conditions: Temperature < 30 ˚C & Humidity 55% (Maximum) in original packed condition)