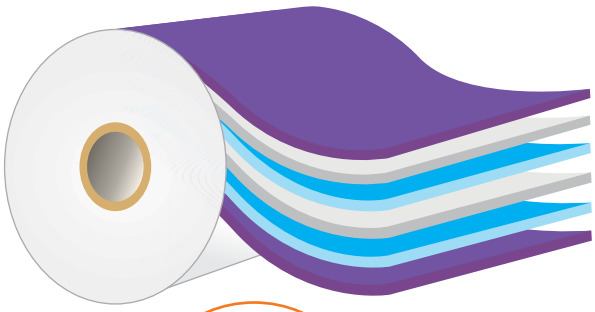
TECHNICAL DATA SHEET

TOPPAN

MDS18OB5

BOPP FILMS

Metallised Heat Sealable Inside Metallised High Oxygen Barrier Grade for Packaging Conversion



Metallised surface
Metallisable layer
Tie layer
OPP core
Tie layer
High Sealable Layer

18 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

MDS18OB5 is High Oxygen barrier metallised **BOPP** film. In addition to excellent water barrier this film has an exceptional barrier to oxygen. It is metallised on one side and heat sealable on other side. 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

- Outstanding oxygen barrier
- Outstanding Moisture & light barrier
- Good Metal adhesion and treatment retention
- Extended shelf life for food products
- Good seal properties in terms of seal integrity, seal strength and hot-tack
- Excellent runnability on HFFS & VFFS machines

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

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TOPPAN

	PROPERTIES	POSITION	MDS18OB5	UNIT	METHOD
GENERAL	Nominal Thickness	-	18	µ	Internal Method
	Grammage	-	16.38	g/m^2	Internal Method
	Yield	-	61.1	m^2/kg	Internal Method
OPTICAL	Optical Density	-	2.7	-	Internal Method
SURFACE	Metal Adhesion	-	100	%	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD - TD	1300 2600	kg/cm^2	ASTM D 882
	Elongation (at break)	- MD - TD	190 60	%	ASTM D 882
	Elastic Modulus	- MD - TD	18000 30000	kg/cm^2	ASTM D 882
THERMAL	Linear Shrinkage (max)	- MD - TD	4 2	%	ASTM D 1204
	Heat Seal Range	-	98-140	°C	Internal Method
	Heat Seal Strength	-	400	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	-	10	$cc/m^2/day$	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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