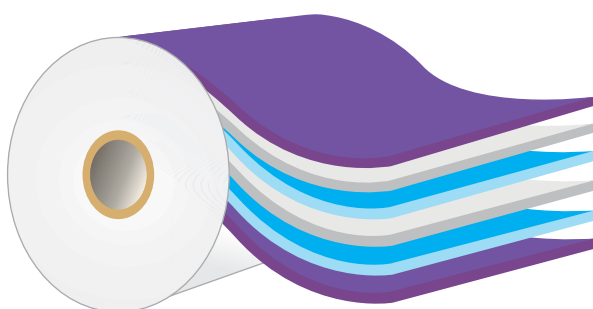


M18SL5E

BOPP FILMS

METALLISED HEAT SEALABLE BOPP FILM INSIDE METALLISED HIGH OXYGEN BARRIER GRADE FOR DIRECT EXTRUSION LAMINATION WITH PE



Metallised Surface
Metallisable Layer
Tie Layer
OPP Layer
Tie Layer
Special Polymer Surface for Direct Extrusion Lamination with PE



AVAILABLE
CALIPERS

DESCRIPTION

OPP MSL5E is High Oxygen barrier Metallised **BOPP** film. It is metallised on one side and other side heat sealable surface which is specifically designed for direct extrusion lamination with PE. In addition to High Oxygen Barrier, this film has also good moisture barrier.

PRODUCT FEATURES

- Outstanding oxygen barrier
- Outstanding Moisture & light barrier
- Metal Crack resistance during extrusion lamination
- Good treatment retention & metal adhesion
- Extended shelf life for food products
- Non Metal Side is specifically designed for direct extrusion lamination with PE Surface.
- Metal Side Surface is suitable for both Adhesive and Extrusion lamination.
- Excellent runnability on HFFS & VFFS machines

APPLICATIONS

Sandwich lamination in triplex structures as a replacement of Aluminium foil/metallised polyester

- Pouch/Sachet laminates
- Health and beauty care
- Household and detergents
- Dry foods and beverage powders
- Crisps and snacks

	PROPERTIES	POSITION	M18SL5E	UNIT	METHOD
GENERAL	Nominal Thickness	-	18	μ	Internal Method
	Density	-	0.91	g/cc	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	1200 2600	kg/cm ²	ASTM D 882
	Elongation (at break)	- MD - TD	240 70	%	ASTM D 882
	Elastic Modulus	- MD - TD	16000 28000	kg/cm ²	ASTM D 882
	Linear Shrinkage (max)	- MD - TD	4 2	%	ASTM D 1204
THERMAL	Seal Initiation temp.	-	98	°C	Internal Method
	Heat Seal strength	-	250	g/25mm	Internal Method (130°C/1sec/30psi)
BARRIER	WVTR 38° C 90% rh	-	0.5	g/m ² /day	ASTM F 1249
	OXTR 23° C	-	2	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)