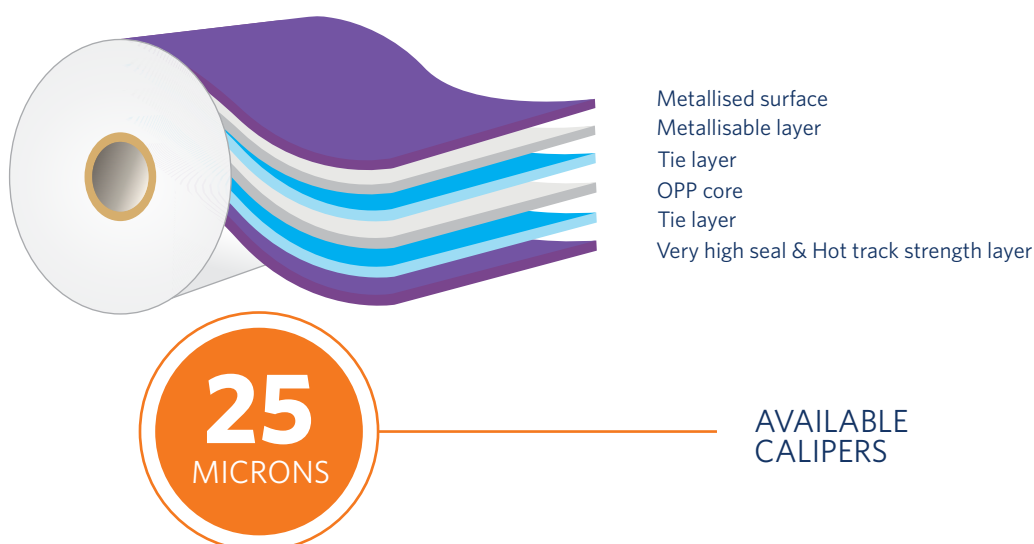


PROVISIONAL

25MUSOB3UL

BOPP FILMS

METALLISED HEAT SEALABLE ULTRA SEAL, ULTRA HIGH OXYGEN BARRIER
BOPP GRADE FOR HIGH SPEED PACKAGING



DESCRIPTION

OPP MUSOB3UL is Ultra seal, Ultra high oxygen barrier metallised BOPP film. It is metallised on one side with very high hot tack and broad seal range surface on other side; Especially designed for demanding high speed packaging applications where its wide seal operating window can be used on high speed machines. In addition to this its exceptional barrier properties make it an ideal choice for sensitive product demanding great protection.

PRODUCT FEATURES

- Outstanding seal performance in term of strength, hot-tack and integrity
- Outstanding oxygen barrier
- Remarkable performance on HFFS & VFFS machines
- Excellent seal integrity in presence of contaminants and humidity
- Outstanding Moisture & light barrier
- Good treatment retention & metal adhesion

APPLICATIONS

To be used as inner sealable web in laminated structure where high barrier protection and seal integrity are required.

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

TOPPAN SPECIALITY FILMS

PROVISIONAL

	PROPERTIES	POSITION	25MUSOB3UL	UNIT	METHOD
GENERAL	Nominal Thickness	-	25	μ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	Grammage	-	22.75	g/m ²	Internal Method
	Yield	-	44.0	m ² /kg	Internal Method
SURFACE OPTICAL	Optical Density	-	2.7	-	Internal Method
	Metal Adhesion	-	100	%	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD - TD	900 1800	kg/cm ²	ASTM D 882
	Elongation (at break)	- MD - TD	250 60	%	ASTM D 882
	Elastic Modulus	- MD - TD	10000 22000	kg/cm ²	ASTM D 882
	Linear Shrinkage (max)	- MD - TD	4 2	%	ASTM D 1204
THERMAL	Heat Seal Range	-	98-145	° C	Internal Method
	Seal Strength	-	1500	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	-	0.2	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)