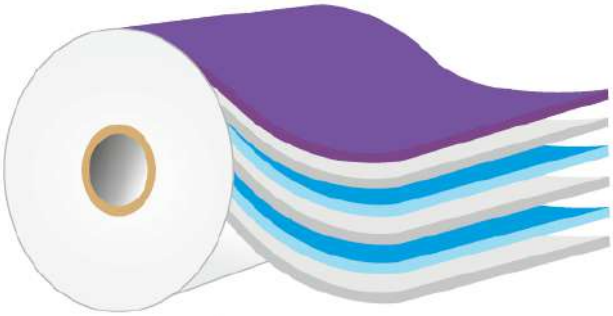
TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

MDQ18I275-MB

METALLISED VERY LOW SEAL INITIATION TEMPERATURE, HIGH HOT-TACK & HIGH SEAL STRENGTH ULTRA BARRIER GRADE BOPP FILM FOR HIGH SPEED PACKAGING APPLICATIONS



Aluminium Layer
Treated, Metallizable Layer
Tie Layer
PP Core layer
Tie Layer
Very Low SIT/ High Hot Tack Layer

18 Micron

AVAILABLE CALIPERS

DESCRIPTION

OPP MDQ18I275-MB is a metallised Ultra High Barrier Grade multipurpose BOPP film with very low seal initiation temperature and broad seal range. Especially designed for high speed packaging where its wide seal operating window can be used on high speed machines. In addition to this it's improved barrier properties make it an ideal choice for sensitive product demanding great protection.

PRODUCT FEATURES

- Wide sealing range with very low seal initiation temperature (SIT ~ 85°c)
- Excellent sealing properties in term of strength, hot-tack and integrity
- Remarkable performance on HFFS & VFFS machines
- Excellent seal integrity in presence of contaminants and humidity
- Excellent metal adhesion, bond strength and treatment retention
- Excellent barrier properties

APPLICATIONS

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

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

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	PROPERTIES	REF.	MDQ18I275-MB	UNITS	TEST METHOD
GENERAL	Thickness	-	18	µ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	GSM	-	16.38	gm/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
	Metal Bond Strength (min.)	-	100	gf/25mm	Internal Method (with EAA film) with reference to AIMCAL method
MECHANICAL	Tensile Strength	MD TD	1200 2700	Kg/cm^2	ASTM D 882
	Elongation	MD TD	200 70	%	ASTM D 882
	Modulus	MD TD	18000 28000	Kg/cm^2	ASTM D 882
THERMAL	Thermal Shrinkage	MD TD	4 2	%	ASTM D 1204
	SIT	-	85	°C	Internal Method
	Heat Seal Strength (1.0sec, 170N, 130°C)	-	500	gm/25mm	Internal Method
	Hot Tack Strength (0.5sec, 30psi, 120°C)	-	250	gm/25mm	Internal Method
BARRIER	WVTR (38°C, 90%rh) (max)	-	0.20	$gm/m^2/day$	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)