TECHNICAL DATA SHEET

TOPPAN

MDQ18I275

BOPP FILMS

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

Metallised Layer

OPP Core

Very Low SIT/ High Hot Tack Layer

18 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

OPP MDQ275 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 its 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 a inner sealable web in laminated structure where high barrier protection and seal integrity are required

- Confectionery (chocolate/gum/sugar)
- Bakery (biscuits/cookie/crackers)
- Chips and Snacks
- Dry food and powders
- Ice cream and frozen food

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	PROPERTIES	POSITION	MDQ18I275	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 bond strength (Min)	-	100	gm/25mm	Internal Method (with EAA film) with reference to AIMCAL defined method
	Metal Adhesion	-	100	%	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD - TD	1200 2700	kg/cm^2	ASTM D 882
	Elongation (at break)	- MD - TD	200 70	%	ASTM D 882
	Elastic Modulus	- MD - TD	18000 28000	kg/cm^2	ASTM D 882
THERMAL	Linear Shrinkage (max)	- MD - TD	4 2	%	ASTM D 1204
	Seal Initiation temperature	-	85	°C	Internal Method
	Heat Seal Range	-	85-145	°C	Internal Method
	Seal Strength	-	500	g/25mm	Internal Method (130°C/1sec/30psi)
	Hot Tack Strength	-	250	g/25mm	Internal Method (120°C/0.5sec/30psi)
BARRIER	WVTR 38° C 90% RH	-	0.2	$g/m^2/day$	ASTM F 1249
	OXTR 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 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)