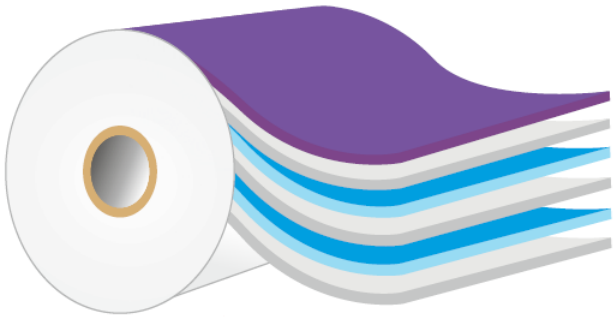
TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

MDQSI275

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
High Hot Tack layer & Very Low SIT layer

0.59, 0.79, 0.98 mils

AVAILABLE CALIPERS

DESCRIPTION

MDQSI275 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 ~ 80°C)
- Excellent sealing properties in term of strength, hot-tack and integrity
- Excellent seal integrity in presence of contaminants and humidity
- Remarkable performance on HFFS & VFFS machines
- Excellent metal adhesion, bond strength and treatment retention
- Excellent Barrier properties

APPLICATIONS

To be used as 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)
- Potato chips/ Snacks/ Crisp
- Dry food & powder

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	PROPERTIES	REF.	MDQS15I275	MDQS20I275	MDQ25I275	UNITS	TEST METHOD
GENERAL	Thickness	-	0.59	0.79	0.98	mils	Internal Method
	Density	-	0.91	0.91	0.91	g/cc	Internal Method
	GSM	-	2.81	3.73	4.67	lb/1000ft^2	Internal Method
	Yield	-	51535	38599	30935	in^2/lb	Internal Method
OPTICAL	Optical Density	-		2.7		-	Internal Method
SURFACE	Metal Adhesion	-		100		%	Internal Method
	Metal Bond Strength	-		200		gm/in	AIMCAL Method
	Dynamic COF	Film/Film		0.6		-	ASTM D 1894
MECHANICAL	Tensile Strength	MD TD		17068 35558		psi	ASTM D 882
	Elongation	MD TD		200 60		%	ASTM D 882
	Modulus	MD TD		227573 398252		psi	ASTM D 882
THERMAL	Thermal Shrinkage	MD TD		4 2		%	ASTM D 1204
	SIT	-		176		°F	Internal Method
	Heat Seal Strength (1.0sec, 30psi, 185°F)	-		500		gm/in	Internal Method
	Heat Seal Strength (1.0sec, 30psi, 250°F)	-		500		gm/in	Internal Method
	Hot Tack Strength (0.5sec, 30psi, 248°F)	-	200	250	300	gm/in	Internal Method
BARRIER	WVTR (100.4°F, 90%rh)	-		0.013		gm/100in^2/24hr	ASTM F 1249
	OTR (73.4°F, 0%rh)	-		3.870		cc/100in^2/24hr	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)