TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

MDSI275PE

BOPE FILMS

METALIZED BIAXIALLY ORIENTED LOW SIT HEAT SEALABLE POLYETHYLENE FILM FOR CONVERSION

Metalized Treated PE Layer

PE Core

High HSS, Low SIT untreated PE layer

20,25 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

MDSI275PE is metalized biaxially oriented Low SIT Heat sealable PE film. It is one side corona treated on metalized side for lamination and other side with broad heat seal range and very high seal strength surface; Especially designed with excellent metal adhesion and controlled thickness for demanding high speed packaging applications.

PRODUCT FEATURES

- Easy Tear
- Outstanding seal performance in term of strength, hot-tack and integrity
- Remarkable performance on HFFS & VFFS machines
- Good Gloss/Luster
- Good Punture and Pin hole resistance
- Suitable for Nitrogen Flush

APPLICATIONS

To be used as inner sealable web in laminated structure

- Bakery (Biscuits/cookie/crackers)
- Household and detergents
- Potato chips/snacks/crisp
- Frozen food

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	PROPERTIES	POSITION	MDS20I275PE	MDS25I275PE	UNIT	METHOD
GENERAL	Nominal Thickness	-	20	25	µ	Internal Method
	Density	-	0.96	0.96	g/cc	Internal Method
	Grammage	-	19.2	24.0	g/m^2	Internal Method
	Yield	-	52.1	41.7	m^2/kg	Internal Method
OPTICAL	Optical Density	-	2.7		-	Internal Method
SURFACE	Metal Adhesion	-	100		%	Internal Method
	Dynamic COF	Film/Film	0.35		-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	- MD	350	400	kg/cm^2	ASTM D 882
		- TD	800	800		
	Elongation (at break)	- MD	450	450	%	ASTM D 882
		- TD	120	120		
	Elastic Modulus	- MD	4500	6000	kg/cm^2	ASTM D 882
		- TD	5500	9500		
THERMAL	Linear Shrinkage (max)	- MD	3		%	Internal Method (100°C/5min)
		- TD	4			
	Heat Seal Strength	Laminate (BOPP+Met BOPE)	3.0		kg/25mm	Internal Method (130°C/1sec/30psi)
	Heat Seal Strength	Laminate (BOPP+Met BOPE)	5.0		kg/25mm	Internal Method (140°C/1sec/30psi)
	Heat Seal Range		103-145		°C	Internal Method
BARRIER	WVTR 38° C 90% RH	-	1.0	1.0	$g/m^2/day$	ASTM F 1249
	OTR 23° C, 0% RH	-	60	100	$cc/m^2/day$	ASTM D 3985

The figures and above properties refer to average values of laboratory test on samples of our standard production, it is understood that this entails no obligation or responsibility on our part. 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 with three months of receipt. OPE films should be allowed to reach operating room temperature 24 hours before use. Film characteristics are maintained for six months from the date of manufacturing except for metallized layer surface tension

PRINTING & LAMINATION

Online corona treatment is strongly recommended before processing the material. Metallised surface can normally be laminated with appropriate substrates but an appropriate primer is recommended when the metallised surface is to be printed

FOOD CONTACT

OPE films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request

SAFETY

Compliance with industrial health and safety standards. OPE 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)