TECHNICAL DATA SHEET

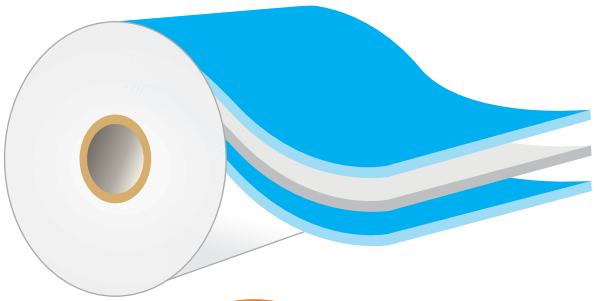
TOPPAN

PROVISIONAL

MS25I275PE

BOPE FILMS

METALIZED BIAXIALLY ORIENTED POLYETHYLENE FOR PACKAGING CONVERSION



Metalized Treated PE Layer

PE Core

High HSS untreated PE layer

25 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

MSI275PE is metalized biaxially oriented 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	MS25I275PE	UNIT	METHOD
GENERAL	Nominal Thickness	-	25	µ	Internal Method
	Density	-	0.95	g/cc	Internal Method
	Grammage	-	23.75	g/m^2	ASTM D 1505
	Yield	-	42.1	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 - TD	700 1600	kg/cm^2	ASTM D 882
	Elongation (at break)	- MD - TD	300 90	%	ASTM D 882
	Elastic Modulus	- MD - TD	6000 10000	kg/cm^2	ASTM D 882
THERMAL	Linear Shrinkage (max)	- MD - TD	5 7	%	Internal Method (100°C/5min)
	Heat Seal Strength	Laminate (BOPP+Met BOPE)	3	kg/25mm	Internal Method (130°C/1sec/30psi)
	Heat Seal Strength	Laminate (BOPP+Met BOPE)	5	kg/25mm	Internal Method (140°C/1sec/30psi)
BARRIER	WVTR 38° C 90% RH	-	1.5	$g/m^2/day$	ASTM F 1249
	OTR 23° C, 0% RH	-	150	$cc/m^2/day$	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)