ECOSYAR VE100



ECOSYAR VE100 is the film made by applying ceramic (silica/alumina) deposition based on polyester film and adding superior barrier properties while keeping the heat resistance of PET.

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(1)Superior in moisture-proof properties and gas barrier properties
(2)Colorless and transparent
(3)The decrease of the barrier properties by the film elongation are small during the secondary process etc.

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You can use it for many things from dry foods, boiled foods, and microwave foods to non-foods. It can be a substitute for aluminum foil, aluminum deposition, and PVDC coated products.

Single physical property of the ECOSYAR VE100

Item		VE100	Unit	Reference
Thickness		12	μm	
Vapor transmissivity		2	g/m²,d	
Oxygen transmissivity		20(2)	ml/m²,d,MPa(cc/m²,d)	
Total light transmittance		90	%	Same as PET
Haze		2.6	%	Same as PET
Color(b)		2		Same as PET
Tensile breaking strength	MD/TD	220/230	Мра	Same as PET
Tensile breaking elongation	MD/TD	100/95	%	Same as PET
Impact strength		0.4	J	Same as PET
Heat shrinkage rate (160 degrees C, 10mins)	MD/TD	1.4/0.2	%	Same as PET

MD/TD = Length/Width *All the numerical values are shown by representative value

Barrier properties of the laminated products

Item	Vapor transmissivity g/㎡,d	Oxygen transmissivityz ml/㎡,d,MPa(cc/㎡ ,d)	
Unprocessed (Blank)	1.0	10(1.0)	
Boiling process	1.7	13(1.3)	95 degrees C, 30mins
Gelbo test	1.3	54(5.4)*	23°C,50 times

*Reference: The aluminum deposited PET is 10ml/m,d,MPa if unprocessed. However it becomes 103ml/m,d,MPa after the Gelbo process. Furthermore, the lamination strength is over 5N/15mm (the film broken) before and after the boiling process.

TOYOBO CO., LTD. Packaging Film

http://www.toyobo.co.jp/seihin/film/

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