

Toyobo ECOSYAR 'VE706' is the boil retort type made by applying ceramic (silica/alumina) deposition based on polyester film and improving the deterioration of barrier properties at retort period and heat resistance, produced with Toyobo's film creating technology, deposition and coating technology.

FUTURE

1. Improved deterioration of the barrier properties before and after boiling and retort process

Retort features of the ECOSYAR 'VE706' laminated products

*Retort process conditions

Adhesive agent: application amount

2. Improve the barrier properties of the ECOSYAR general purpose grade VE100

Single physical property of the ECOSYAR 'VE706'

1. Improved deterioration of the barrier properties before and after boiling and retort process

Retort features of the ECOSYAR 'VE706' laminated products

Oxygen transmissivity

	VE706	VE100	Unit	Reference
Unprocessed (Blank)	13(1.3)	15(1.5)	ml/m ² ,d,Mpa (cc/m ² ,d,atm)	23°C×65%RH
After retort process	13(1.3)	80(8.0)		

Vapor transmissivity

	VE607	VE100	Unit	Reference
Unprocessed (Blank)	1.8	1.5	g/m ² ,d	40°C×90%RH
After retort process	2.0	3.0		

*All the numerical values are shown by representative value

*Retort process conditions 120°C 30min

*Dry lamination conditions

Adhesive agent: Mitsui Chemicals TM525S/A50, Application amount 3.5g/m², 40 Celsius degrees*4 days aging

Lamination structure : VE706(12)//NY(15)//CPP(70)

2. Improve the barrier properties of the ECOSYAR general purpose grade VE100

Single physical property of the ECOSYAR 'VE706'

Item		VE706	VE100	Unit	Reference
Thickness		12	12	μm	
Oxygen transmissivity		15(1.5)	20(2)	ml/m ² ,d,Mpa (cc/m ² ,d,atm)	23°C×65%RH
Vapor transmissivity		1.8	2	g/m ² ,d	40°C×90%RH
Haze		2.6	2.6	%	
Tensile breaking strength	Length/Width	220/230 (22/23)	220/230 (22/23)	Mpa (kg f/mm ²)	Same as PET
Tensile breaking elongation	Length/Width	100/95	100/95	%	Same as PET
Impact strength		0.4(4)	0.4(4)	J (kg f,cm)	Same as PET
Heat shrinkage rate	Length/Width	1.4/0.2	1.4/0.2	%	Same as PET

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