

Toyobo ECOSYAR 'VE607' is the high barrier type made by applying ceramic (silica/alumina) deposition with based on polyester film and improving barrier properties produced with Toyobo's film creating technology and deposition & coating technology.

FUTURE

1. Improved oxygen and vapor barrier properties of the ECOSYAR general purpose grade VE100

*It is impossible to use it for boiled and retort product packaging.

Single physical property of ECOSYAR 'VE607'

2. After the functional coating is applied, the bending and deterioration of the barrier properties of the Gelbo process are improved.

Features of the ECOSYAR 'VE607' laminated products

1. Improved oxygen and vapor barrier properties of the ECOSYAR general purpose grade VE100

*It is impossible to use it for boiled and retort product packaging.

Single physical property of ECOSYAR 'VE607'

Item		VE607	VE100	Unit	Reference
Thickness		12	12	μm	
Oxygen transmissivity		3(0.3)	20(2)	ml/m ² ,d,Mpa (cc/m ² ,d,atm)	23°C×65%RH
Vapor transmissivity		0.5	2	g/m ² ,d	40°C×90%RH
Haze		8	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

2. After the functional coating is applied, the bending and deterioration of the barrier properties of the Gelbo process are improved.

Features of the ECOSYAR 'VE607' laminated products

Oxygen transmissivity

	VE607	VE100	Unit	Reference
Unprocessed (Blank)	3(0.3)	15(1.5)	ml/m ² ,d,Mpa (cc/m ² ,d,atm)	23°C×65%RH
Gelbo test	4(0.4)	54(5.4)		

Vapor transmissivity

	VE607	VE100	Unit	Reference
Unprocessed (Blank)	0.5	1.5	g/m ² ,d	40°C×90%RH
Gelbo test	0.6	2.5		

*All the numerical values are shown by representative value

*Gelbo test condition: 23 Celsius degrees, 50 times

*Dry lamination conditions

Adhesive agent: Toyo Morton TM569/CAT10L, Application amount 3g/m², 40 Celsius degrees*2 days aging

Lamination structure: VE607 and VE100/LLDPE (L4102 40μm)

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