

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.

## FUTURE

- (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.

## Single physical property of the ECOSYAR VE100(9 $\mu$ m)

Item		Unit	VE100	VE130	VE100	Measuring method
Thickness		$\mu$ m	9		12	JIS Z1715
Oxygen transmissivity		ml/m <sup>2</sup> ,d,MPa(cc/m <sup>2</sup> ,d)	20		20	JIS K7126
Vapor transmissivity		g/m <sup>2</sup> ,d	2		2	JIS K7129
Haze		%	4.5		2.6	JIS K7105
Tensile breaking strength	Length	Mpa	230		220	JIS K7127
	Width		240		230	JIS K7127
Tensile breaking elongation	Length	%	85		100	JIS K7127
	Width		75		95	JIS K7127
Impact strength	23°C	J	0.4		0.4	Toyobo method
Static friction coefficient	Revolute	-	0.60	0.65	0.45	JIS K7125
Dynamic friction coefficient	Revolute	-	0.50	0.55	0.40	
Heat shrinkage rate	Length	%	1.4		1.4	JIS Z1715
	Width		0.1		0.2	

Based on these data, the representative values were measured under the specialized condition at our company's film feature evaluation agency.

Due to thinning the film, the improvement of volume reduction and filling properties can be expected.

Application examples	General structure	Merits
Cookies,Sweets	OPP/Transparent deposition PET/Sealant/paper/Transparent deposition PET/Sealant	Cost reduction,Cutting property,Sealing
Dry food,Dainties	OPP/Transparent deposition PET/Sealant/OPP/EVHO/Sealant	Cost reduction
Ham,Sausages (top seal material)	OPP/Transparent deposition PET/Sealant	Cost reduction,Volume reduction

### <Merits>

Gauge reduction of the structure

⇒Flexibility of packaging materials improved (Seal ability,Pinhole resistance)

⇒Volume reduction

Cost reduction

Recommended use= Use for 3 layer structuress

**TOYOBO CO., LTD.** Packaging Film

<http://www.toyobo-global.com/>

1-13-1 Umeda, Kita-ku, Osaka

530-0001, JAPAN

[TEL]+81-6-6348-3764 [FAX]+81-6-6348-3768