

ECOSYAR VN406 is the type where protective coating is applied to the ECOSYAR VN400, which is made by applying ceramic (silica/alumina) deposition based on the biaxial stretched nylon film and adding superior barrier properties while keeping the toughness of the ONY such as pinhole resistance.

FUTURE

- (1) Superior in content adhesion resistance compared with the conventional VN200
- (2) Barrier properties are stable compared with VN200
- (3) As others, the film features are the same as VN200
- (4) As protective coating is applied, it is easy to get the stable features even if you use for general purpose ink and adhesive agent.

USE

You can use it for oxygen absorber enclosed foods, small packaging of seasonings, heavy load bag, BIB, lids etc. It can be used as a substitute for the PVDC coating, ONY (KNY), and other barrier packaging.

Single physical property of the ECOSYAR VN406

Item	VN406	VN200	KNY	Unit
Thickness	15	15	18	μm
Haze	2	2	4	%
Color(b)	2	2	3	
Tensile breaking strength(MD/TD)	220/270	220/270	220/250	Mpa
Tensile breaking elongation(MD/TD)	100/85	100/85	100/70	%
Impact strength	1.2(12)	1.2(12)	1.0(10)	J
Bending pinhole properties	1	1	5	5000times at 23°C

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

Barrier properties of the laminated products

		VN406	VN200	
Oxygen transmissivity	Ordinary state	15	20	ml/m ² ,d,Mpa
	White solid printing	15	30	
Vapor transmissivity		2	3	g/m ² ,d

Water soaking: 1 day Vapor transmissivity:23°C×65%RH

		VN406	VN200	
Sealing strength	Length	65	50	N/15mm
	Width	65	53	
Lamination strength	Ordinary state	5.2	4	N/15mm
	Water soaking	1.8	14	

*Dry lamination conditions

Adhesive agent: TOYO MOTON TM590/CAT56, Application amount 3.0g/m², 40 Celsius degrees*2 days aging

Lamination structure : VN400 / LLDPE (L6102 40μm)

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