

Toyobo ECOSYAR 'VN507' is the high barrier type of the transparent deposited nylon film made by applying ceramic (silica/alumina) deposition based on Toyobo's 'harden film' (N1100) and improving barrier properties by utilizing the film creating technology, deposition and coating technology while keeping the toughness of ONY.

## FUTURE

- (1) Superior in moisture-keeping properties and gas barrier properties
- (2) As the functional coating is applied, the deterioration of barrier properties during the secondary process etc. is decreased.

\*This product cannot be handled with the boiling process in the 2-layer structure with LL.

## USE

Used for soups, small packaging of seasonings, oxygen absorber enclosed foods, heavy load bag, BIB, lids etc.

We recommend using for non-foods and foods for which high leveled barrier properties are required.

### Barrier properties of the laminated products

	VN507	VN100	Unit	Reference
Oxygen transmissivity	3(0.3)	20(2)	ml/m <sup>2</sup> ,d,Mpa (cc/m <sup>2</sup> ,d,atm)	23°C*65%RH
Vapor transmissivity	1.5	2.5	g/m <sup>2</sup> ,d	40°C*90%RH

### Lamination strength

	VN507	VN100	Unit	Reference
Ordinary state	7.0	6	g/m <sup>2</sup> ,d	N/15mm 90°Separation
Water soaking	2.0	1.8		

\*Dry lamination conditions

Adhesive agent: TOYO MOTON TM590/CAT56, Application amount 3.0g/m<sup>2</sup>, 40 Celsius degrees\*2 days aging

Lamination structure : VN507 VN100 / LLDPE (L4102 40μm)

Item		VN507	VN100	Unit
Thickness		15	15	μm
Haze		5	2	%
Tensile breaking strength	Length/Width	210/250 (21/25)	210/250 (21/25)	Mpa (kg f/mm <sup>2</sup> )
Tensile breaking elongation	Length/Width	120/70	120/70	%
Impact strength		1	1.1	J
Heat shrinkage rate	Length/Width	1.4/0.2	1.4/0.2	%

\*Caution\* As this product is in the developing process, physical properties may be changed without any announcement.

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