

VINYBLAN 715 TECHNICAL DATA SHEET

Product description

VINYBLAN 715—Colloidal dispersion of Vinyl chloride Based Polymer. Based on Nissin's unique technology, Vinyblan 715 is a polymerized vinyl chloride emulsion that does not use any emulsifier. They are especially suitable to be used as a the binder for water-based ink.

use

Features

- Shows excellent compatibility with various additives and solvents and fine dispersion of fillers.
- Exhibits excellent water resistance as it does not use any emulsifier.
- Consists of a transparent liquid with small particles.
- Exhibits acid/alcohol resistance and excellent transparency when film is formed.
- Does not use N-Methyl-2- pyrrolidone or N-Ethyl-2- pyrrolidone both of which are classified by the EU as CMR.*1

Applications

- Water-based ink binder for PET, PVC film printing, for Such as gravure-ink, flexographic-ink, and ink-jet.

VINYBLAN 715 General Properties

Item	Results
Appearance	Milky white
PVC Content (%)	50
Solid Content (%)	20 ~ 25
Viscosity (mPa·s)	1 ~ 100
PH	7 ~ 9
Tg (°C)	30
MFT (°C)	35
Specific Gravity(g/cm ³)	1.1
Ionicity	Anion
Machine Stability (*1)	Good

(*1) By the Marlon Stability tester.

<Note> These values are typical properties and are not intended for

in actual specifications.

Shelf Life

- When this product is properly stored in the original un-opened container at a cool temperatures, ranging between 5°C and 35°C, and in a dark location, we certify that every characteristic of this product meets the specifications for 6 months after the shipping date from our factory in Japan.

Packaging

- 18kg Can; 200kg Drum; 1,000kg Container

Storage Conditions

- Store in a cool, dry location and avoid exposure to direct sunlight. The desirable temperature range for storage is between 5°C and 35°C.

*1 CMR : Carcinogenic, Mutagenic or toxic to Reproduction

VINYBLAN 715

Film performance of Vinyblan 715

Coating condition/Drying condition		Formulation	
Base Material		Undiluted Solution	
TORAY LUMIRROR T60 #188 (PET Film)		VINYBLAN 715	95.0
Coating Amount	23 g-wet/m ²	Isopropanol (Wetting agent)	5.0
Dried	105C° X 1 min.		

Evaluation Method

Abrasion resistance

A ; Tape peeling test

B ; Rubbing test was carried out using gauze
(Load 300g, repeated 30 times).

C ; Rubbing test was carried out using gauze moistened
with water. (Load 300g, repeated 30 times).

D ; Rubbing test was carried out using gauze moistened
with 80%Ethanol(20%Water).
(Load 300g, repeated 30 times).

VINYBLAN 715	
Item	Evaluation Result
A	5
B	5
C	5
D	5

5 ; No change

4 ; A little of the coating surface is peeled

3 ; Half of the coating surface is peeled

2 ; More than half of the coating surface is peeled

1 ; Most of the coating surface is peeled

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Caution

- ◆ Follow the precautions in the material safety data sheet and technical references.
- ◆ VINYBLAN is for industrial use only.
- ◆ The data in this document does not include all specifications. Purchasers must conduct tests of their own before putting the product to practical use to verify its compliance, with their intentions for its employment.

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