

VINYBLAN 713/715 TECHNICAL DATA SHEET

Product description

VINYBLAN 713 and 715 — Colloidal dispersion of Vinyl chloride Based Polymer.

Based on Nissin's unique technology, VINYBLAN 713 and 715 are a polymerized vinyl chloride emulsion that do not contain emulsifiers. They are ideally formulated for use as a binder in water-based inks.

Features

- Forms a film at room temperature.
- Excellent compatibility with various additives, solvents and fine dispersion of fillers.
- Exhibits excellent water resistance due to the absence of an emulsifier.
- This is a transparent liquid with small particles.
- Exhibits acid/alcohol resistance producing excellent transparency when film is formed.
- Do not use N-Methyl-2- pyrrolidone or N-Ethyl-2- pyrrolidone, both of which are classified by the EU as CMR.
(CMR : Carcinogenic, Mutagenic or toxic to Reproduction)

General Properties

Item	713	715
Appearance	Whitish-light yellow	
PVC Content (%)	30	50
Solid Content (%)	20~25	20~25
Viscosity (mPa·s)	1~100	1~100
PH	7~9	7~9
Tg (°C)	9	26
MFT (°C)	0	5
Specific Gravity(g/cm ³)	1.1	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 use in actual specifications.

Application

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

Shelf Life

- When this product is properly stored in the original unopened 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.

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Film performance

Coating condition/Drying condition		Formulation	
Base Material		Undiluted Solution	
TORAY LUMIRROR T60 #188 (PET Film)		VINYBLAN	95.0
Coating Amount	23 g-wet/m ²		
Dried	①25C°X10min. ②105C°X 1 min.	Isopropanol (Wetting agent)	5.0

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).

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	VINYBLAN 713		VINYBLAN 715	
	Evaluation Result		Evaluation Result	
Drying conditions	25C°10min.	105C° 1min.	25C°10min.	105C° 1min.
A	5	5	5	5
B	5	5	5	5
C	5	5	5	5
D	5	5	4	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



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.
We give no guarantee that the uses presented in this document do not come in conflict with any patents. For the purpose of enhancement of performance or change of specifications, the contents in this document are subject to revision without notice.
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