

VINYBLAN 985 TECHNICAL DATA SHEET

Product description

VINYBLAN 985—Vinyl chloride/Copolymer (Emulsion).

Features

- VINYBLAN 985 has superior flame resistance and can be mixed with all kinds of emulsion.
- It is widely used in textile treatments.

Applications

- Enhances excellent chromogenic color in painting material.
- Adds flame resistance to textiles, non-woven fabric, paints, and coatings.

VINYBLAN 985 General Properties

Attributes	Results
Appearance	Milky white dispersion
Solid Content (%)	37
Viscosity (mPa·s)	300
PH	6.0
Average Particle Size (nm)	70
T _g (°C)	80
MFT (°C)	Min. 80
Specific Gravity	1.1
Acid Value (KOHmg/g)	5
Ionicity	Anion
Machine Stability (*1)	Good
Low Temperature Stability (*2)	Good

(*1) By the Marlon Stability tester.

(*2) No condensation was observed under 5°C.

Shelf Life

- When this product is properly stored in the original unopened container at cool temperature, ranging between 5°C and 30°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.

Film Properties	VINYBLAN 985
Tensile Strength (MPa)	42(*3)
Elongation (%)	0 (*3)
Oxygen Index Number (LOI value)	31 (*4)
Non-combustibility (MVSS Standard)	Self-extinguishing (*5)
Coating Volume 50g [mm/min]	
Non-combustibility (MVSS Standard)	Self-extinguishing (*5)
Transparency	Semitransparent or Breaking (*6)
Heat Resistance [150°C]	Good (*7)
Heat Resistance [200°C]	Good (*7)
Pencil Hardness	Unmeasurable (8)

Evaluation Method

*3: Prepares a film of VINYBLAN with a thickness of Ca. 0.3mm
Measures Tensile Strength under the tension of 500mm/min and Elongation of the film when the film is torn down.

*4: By LOI Standard (JIS K7201)

*5: By MVSS-302 standard
Backing: 100% polyester woven fabric
Coating volume: 50g or 100g/m² (dry)
Treatment: Dipping Drying: 130°C x 5 min.

*6: Applies VINYBLAN on glass plate with a #12 Bar Coater, drying condition: 100°C then observes the sample.

*7: Applies VINYBLAN on a piece of paper with a #12 Bar Coater, drying condition: 150°C and 200°C, then observes if the film turns yellow after 30 minutes.

*8: JIS K5600-5-4 · ISO15184

Packaging

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

Storage Conditions

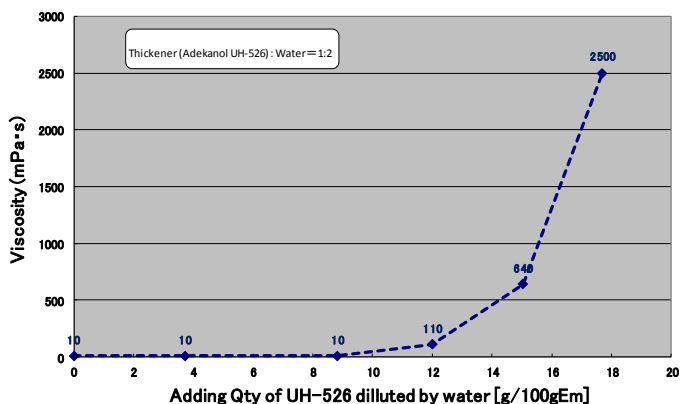
- Store in cool, dry location and avoid direct sunlight. The desirable temperature range for storage is between 5°C and 30°C.

VINYBLAN 985

Processing Information

- VINYBLAN can be applied in various methods, including spray, gravure, foaming, dipping, and knife coating.
- When higher viscosity is needed, thickening agent (urethane associative type or alkali type) can be used.

Please see the below table for an example of Urethane associative type thickening agent.



Notes: (1) The Thickening agent used for V-985 is Adekanol UH-526, Which is different than the UH-450VF used for other VINYBLAN grades. UH-526 has a stronger thickening effect while using a smaller quantity which works well with V-985. (UH-450VF does not thicken V-985 very well.)
(2) Thickening agent (UH-526) is diluted with water prior to usage, due to the fact that it does not easily dissolve in V-985, but will separate, if mixed directly with V-985.

- VINYBLAN can be diluted by water.
- VINYBLAN can be mixed with various anionic emulsions.
- Mixing VINYBLAN with alcohol, such as Methanol or IPA, can causes gelation. (Except for 700 series)

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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.
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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