

VINNAPAS® EP701K

Low-T_g, High-Performance VAE Copolymer Binder with Excellent Adhesion on Non-Polar Surfaces

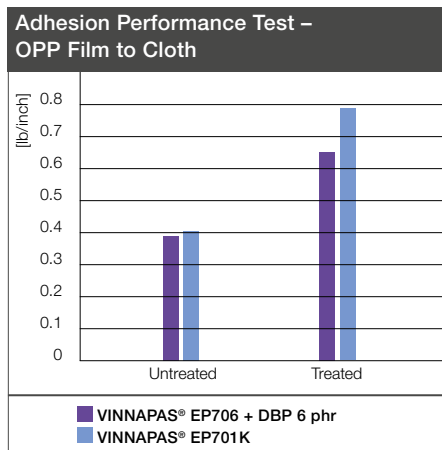
VINNAPAS® EP701K is our new low-T_g (-10 °C) aqueous polymer dispersion based on the monomers vinyl acetate and ethylene. This vinyl acetate-ethylene (VAE) copolymer dispersion shows a unique balance of excellent adhesion with high cohesion. Due to its high ethylene content, it is an ideal dispersion base for difficult-to-bond surfaces and thus very useful in laminating PVC, PET and BOPP film to coated and uncoated paper.

With VINNAPAS® EP701K, you are set to meet both current and developing trends for waterborne adhesives in many industrial applications.

Excellent Adhesion Performance

The figure on the right demonstrates the excellent adhesion properties of VINNAPAS® EP701K on untreated and treated oriented polypropylene (OPP) film to cloth compared to conventional VAE dispersions with a 55% solid content. VINNAPAS® EP701K shows outstanding adhesion characteristics on a wide variety of surfaces and excellent heat resistance for paper and packaging applications.

Product Data		
Specification Data	Inspection Method	Value
Solids content	EN ISO 3251	55 ± 1.5%
Viscosity, dynamic, at 23 °C	EN ISO 2555	3,000 ± 1,000 mPa.s
pH value	ISO 976	4–6
Other Characteristics		
Minimum film-forming temperature		0 °C
Appearance		Clear, glossy
Film surface		Slightly tacky
Glass transition temperature	DCS	Approx. -10 °C



Application Spectrum

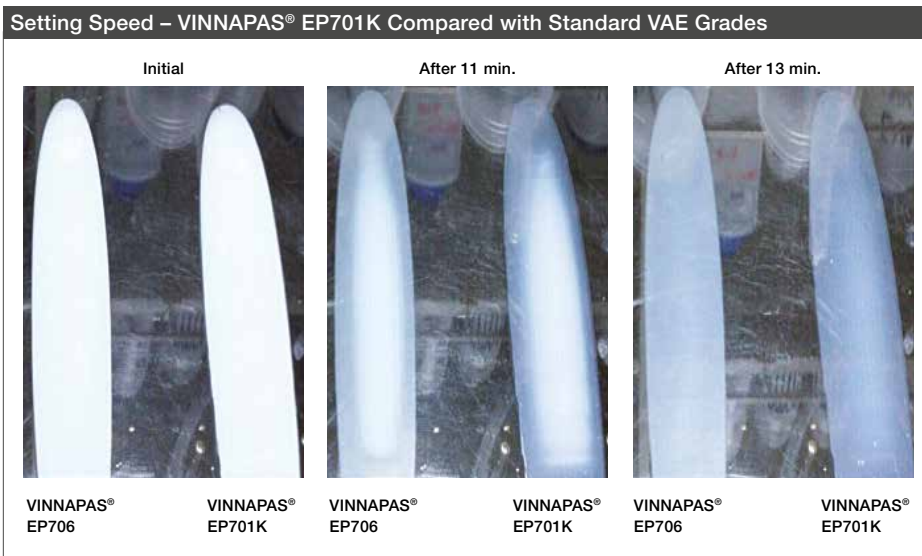
Due to its high setting speed, VINNAPAS® EP701K can be used to formulate a wide range of industrial adhesive applications, e.g.

- Paper packaging (side seaming of cartons/boxes)
- High-speed OPP wet/dry lamination
- Packaging with difficult-to-bond substrates
- Bookbinding
- Window envelopes



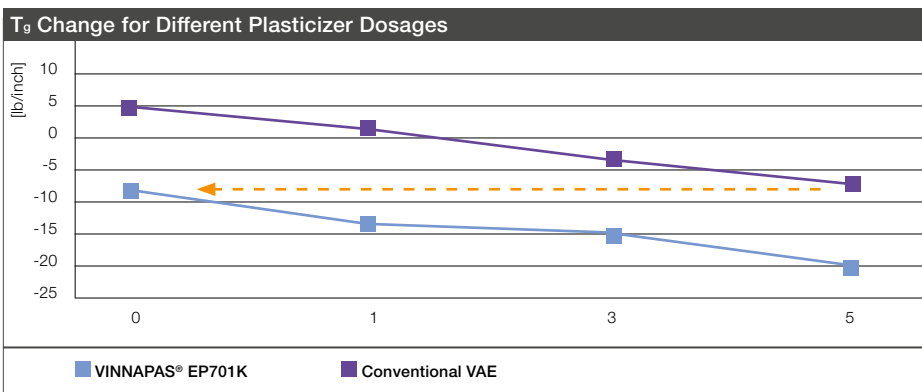
Rapid Setting Speed

A rapid setting speed is an essential property of dispersions used in packaging adhesives. This is especially true when one of the substrates to be bonded is plastic-based or a coated stock, which will not absorb water from the aqueous phase of the adhesive dispersion. Setting speed, which is usually measured in seconds, is the time necessary until two mated substrates yield a significant amount of fiber tear when pulled apart. The figure on the right demonstrates the fast drying time of VINNAPAS® EP701K.



**At a Glance:
Advantages of VINNAPAS® EP701K**

- Best-in-class adhesion on coated and difficult-to-bond substrates
- Outstanding setting speed
- Excellent adhesion/cohesion balance
- High wet tack
- Suitable for both nozzle and roller application
- Ideal for high-speed machines
- Easy to clean
- Stable freeze thaw providing good resistance against cold
- No addition of external plasticizer, therefore low migration potential
- Produced without any APEOs



VINNAPAS® EP701K reduces plasticizer migration in final compound formulations.



Wacker Chemicals (China) Co., Ltd., 1535 Hongmei Road Caohejing Hi-Tech Park, Shanghai 200233, China
 Tel. +86 21 6100-3400, info.china@wacker.com
www.wacker.com/move-adhesives, www.wacker.com/socialmedia



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