

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNOL®

VINNAPAS®

PRODUCT PORTFOLIO | INDIA

VINNAPAS® AND VINNOL® –
DISPERSIONS FOR NONWOVENS
AND TECHNICAL TEXTILES

PRODUCT OVERVIEW

Typical General Characteristics					
Grade	Polymer base ¹	Solids content (ISO 3251) (residue after drying) [%]	Viscosity brookfield RVT at 23 °C 20rpm (ISO 2555) [mPa.s]	pH (ISO 976)	Minimum film (approx.) (ISO
VINNAPAS® self-crosslinking vinyl acetate copolymer dispersions					
VINNAPAS® 192 ²	VAc-E	51 ± 2	50 ± 400	4.5 – 6.0	0
VINNAPAS® AN 214	VAc-A	50 ± 1	250 ± 150	4.5 – 5.5	13
VINNAPAS® EN 1024	VAc-E	53 ± 1	350 ± 250	4 – 5	0
VINNAPAS® EN 1028	VAc-E	50 ± 1	350 ± 300	4.5 – 5.5	0
VINNAPAS® EN 1033	VAc-E	53 ± 1	300 ± 200	3.5 – 4.5	0
VINNAPAS® EN 1689 ²	VAc-E	51 ± 2	50 ± 500	5.0 – 7.0	0
VINNAPAS® EN 428	VAc-E	52 ± 1	200 ± 150	4 – 6	0
VINNOL® vinyl chloride co- & terpolymer dispersions					
VINNOL® CE 35	VC-VAc-E	50 ± 1	50 ± 30	6.0 – 7.5	45
VINNOL® GEN 2752	VC-E	50 ± 1	200 ± 150	5.0 – 7.5	5

Product Properties						
Grade	Soft hand	Hard hand	Hydrophilic	Hydrophobic	Washproof and solvent resistance	Flame retardant
VINNAPAS® self-crosslinking vinyl acetate copolymer dispersions						
VINNAPAS® 192 ²	●		●●●		●●	
VINNAPAS® AN 214		●●●	●●●		●●	●
VINNAPAS® EN 1024	●●●		●●		●●	
VINNAPAS® EN 1028	●●●			●●●	●●	
VINNAPAS® EN 1033	●●●			●	●●	
VINNAPAS® EN 1689 ²	●●●		●●●		●●	
VINNAPAS® EN 428	●●●			●●●	●	
VINNOL® vinyl chloride co- & terpolymer dispersions						
VINNOL® CE 35		●●●	●			●●●
VINNOL® GEN 2752			●		●	●●●

These figures are only intended as a guide and should not be used in preparing specifications.

¹ VAc = vinyl acetate
A = acrylic ester
E = ethylene
VC = vinyl chloride
S = styrene

² Products produced in Ulsan, Korea

³ The T_g values for all products are determined by midpoint, except for VINNAPAS® 192 and VINNAPAS® EN 1689, which use onset.

●●● Very well suited
●● Well suited
● Suited

Forming temperature T ₂₁₁₅ [°C]	Glass transition temperature T _g ³ (DSC) (approx.) [°C]	Predominant particle size (approx.) [µm]	Film	Stabilization System	
				Protective colloid/ emulsifier system	Grade
8		500	Tough	Surfactant	VINNAPAS® 192 ²
30		0.2 – 3	Tough	Surfactant	VINNAPAS® AN 214
-11		0.3	Soft	Surfactant	VINNAPAS® EN 1024
-5		0.3	Soft	Surfactant	VINNAPAS® EN 1028
-5		0.3	Soft	Surfactant	VINNAPAS® EN 1033
-5		500	Soft	Surfactant	VINNAPAS® EN 1689 ²
-15		0.2 – 0.3	Soft	Surfactant	VINNAPAS® EN 428
40		0.15	Brittle	Surfactant	VINNOL® CE 35
10		0.2	Tough	Surfactant	VINNOL® CEN 2752

nt	Heat-sealable/ HF-weldable	Application Methods				Grade
		Impregnation	Print bonding	Spraying	Foaming	
		●●	●●	●●●	●●	VINNAPAS® 192 ²
		●●	●●	●●●	●●	VINNAPAS® AN 214
		●●	●●	●●●	●●●	VINNAPAS® EN 1024
		●●●	●●	●●●	●●	VINNAPAS® EN 1028
		●●	●●	●●●	●●	VINNAPAS® EN 1033
		●●	●●	●●●	●●	VINNAPAS® EN 1689 ²
		●●●	●●	●●●	●●	VINNAPAS® EN 428
	●●●	●●		●●	●●●	VINNOL® CE 35
	●	●●	●●		●●	VINNOL® CEN 2752

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