

SUMIKAFLEX 951HQ

Туре:	Ethylene-Vinyl Acetate-Vinyl ester of versatic acid terpolymer Emulsion			
Properties:	SUMIKAFLEX 951HQ (S-951HQ) is a grade which has good adhesion to plastic lamination paper and plastic film. Furthermore, its adhesiveness and creep to heat resistance are excellent.			
Main application:	Main Plastic lamination application: General adhesive Elastic paint Admixture for mortar			
Physical propert	cies:			
Annearance		Ν	Vilky white	
Solid conte	ent	(%)	Ð	55 ± 1
Viscosity		(mPa·s)	1	100 - 1000
pH			4	1 - 7
Ave. partic	ele size	(µm)	C).8
Density		(g/cm ³)	1	1.02
MFT		(°C)	C)
Particle charge		1	Nonionic	
Mechanical stability		(Good	
Tg		(°C)	-	-25
Tensile str	rength	(MPa)	2	2.6
Tensile elo	ongation	(%)	1	200



< Technical information of SUMIKAFLEX 951HQ >

1. Emulsion properties

		S-951HQ
Appearance		Milky white
Solid content	(%)	55 ± 1
Viscosity	(mPa·s)	100 - 1000
pН		4 - 7
Ave. particle size	(µm)	0.8
Density	(g/cm ³)	1.02
MFT	(°C)	0
Particle charge		Nonionic
Mechanical stability		Good
Tg	(°C)	-25

2. Film properties

(1) Tensile strength

		Typical value
Original	Elongation (%)	1200
	Strength (MPa)	2.6

Test method

Thickness of film	: 0.15 mm
Shape of film	: Dumbbell No.3
Original state	$:23^{\circ}\text{C} \times 65\%\text{RH}$

(2) Water resistance of film and alkali liquid

		S-951HQ	S-400HQ
Water	Solve rate (%)	6	5
resistance	Absorb rate (%)	25	16
Alkali liquid	Solve rate (%)	10	9
resistance	Absorb rate (%)	29	20



Test method	
Thickness of film	: 0.15 mm
Water resistance	Film immersed in water for 4 days
	at room temperature
Alkali resistance	: Film immersed in 1 N NaOH for 4 days
	at room temperature

3. Application

(1) Adhesive for paper and plastic film

	S-951HQ	S-400HQ
PET/wood free paper	Paper broken	2.2
PE lamination paper /craft paper	3.1	0.7

Test method

Coating	: Wire bar #22 (Wet 50 g/m ²)
Curing	$\rm \stackrel{:}{_{\sim}} 23^{o}C \times 65\% RH \times 24 \ hours$
Measurement	$\div200$ mm/min, 180° peel (N/25 mm)

(2) Creep of heat resistance

	S-951HQ	S-400HQ
Water Repellent corrugated paper	> 3 hours	> 3 hours

Test method

Matorial	: Water repellent corrugated paper surface
material	and backside
Coating	: Wire bar #22 (Wet 50 g/m ²)
Curing	$:23^{\circ}\text{C} \times 65\%\text{RH} \times 24 \text{ hours}$
Measurement	$:85^{\rm o}{\rm C}\times90\%{\rm RH},$ shearing stress 100 gf