

Sumikaflex 951HQ

Type:	Ethylene-Vinyl acetate-Vinyl ester of versatic acid terpolymer Emulsion	
Properties:	Sumikaflex 951HQ is a grade which has good adhesion for plastic lamination paper and plastic film. Furthermore, its adhesiveness and creep of heat resistance are excellent.	
Main application:	Plastic lamination General adhesive Elastic paint Admixture for mortar	
Physical properties:		
Appearance		Milky white
Solid content (%)		55 ± 1
Viscosity (mPa·s)		100 – 1000
pH		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
Tensile strength (MPa)		2.6
Elongation (%)		1200

< Technical information 951HQ >

1. Emulsion properties

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2. Film properties

(1) Tensile strength

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

Test method

Thickness of film: 0.15 mm

Shape of film: Dumbbell No.3

Original state: 23°C × 65%RH

(2) Water resistance of film and alkali liquid

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

Test method

Thickness of film: 0.15 mm

Water resistance: In water for 4 days at room temperature

Alkali liquid resistance: In 1 N NaOH liquid 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

Coating: Wire bar #22 (Wet 50 g/m²)

Curing: 23°C × 65%RH × 24 h

Measurement: 200 mm/min, 180° peel (N/25 mm)

(2) Creep of heat resistance

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

Material: Water repellent corrugated paper surface and backside

Coating: Wire bar #22 (Wet 50 g/m²)

Curing: 23°C × 65%RH, 24 hours

Measurement: 85°C × 90%RH, shearing stress 100 gf