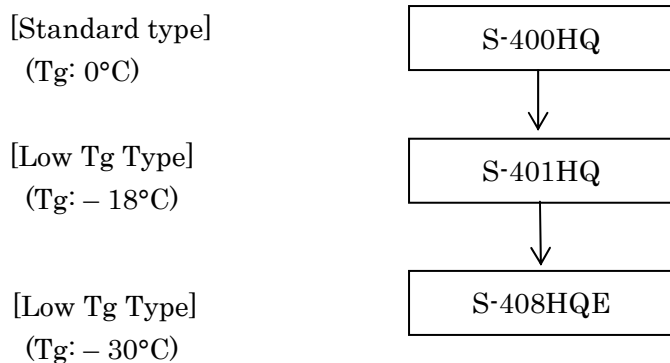


Sumikaflex 408HQE

Type:	Ethylene-Vinyl acetate Copolymer Emulsion	
Properties:	Sumikaflex 408HQE is an unprecedented high ethylene content grade of ethylene vinyl acetate copolymer emulsion. It's better than existed high ethylene grades for hard adhesion base materials, alkali resistance and flexibility in low temperature.	
Main application:	Plastic lamination Adhesion for all papers and fabric Polymer plasticizer	
Physical properties:		
Appearance		Milky white
Solid (%)		50 ± 1
Viscosity (mPa·s)		50 – 500
pH		4 – 7
Ave. Particle size (µm)		0.9
Density (g / cm ³)		1.03
MFT (°C)		0
Particle charge		Nonionic
Machine stability		Good
Tg (°C)		– 30
Film strength (MPa)		5.0
Film elongation (%)		650

< Technical Information of Sumikaflex 408HQE >

1. Grade positioning



2. Emulsion properties

		S-408HQE
Appearance		Milky white
Solid content	(%)	50 ± 1
Viscosity	(mPa·s)	50 – 500
pH		4 – 7
Ave. particle size	(μm)	0.9
Density	(g/cm ³)	1.03
MFT		0
Particle charge		Nonionic
Mechanical stability		Good
Tg	(°C)	- 30

3. Film properties

(1) Film tensile strength

	S-408HQE	S-401HQ	S-400HQ
Elongation (%)	650	850	550
Strength (MPa)	5.0	6.2	12.7

Test method

Film thickness : 0.15 mm

(Film forming condition and aging: 23°C × 65%RH × 7 days)

Shape of film : Dumbbell No.3

Dry film strength : 23°C × 65%RH

Wet film strength : Dipped film in water for 24 hr at 23°C, measured in wet condition

Measurement speed : 500 mm/min

2) Film tensile strength at low temperature

	S-408HQE	S-401HQ	S-400HQ
Elongation (%)	110	2	0
Strength (MPa)	52	50	13

Test method

Film thickness: 0.15 mm

(Film forming condition and aging: 23°C × 65%RH × 7 days)

Shape of film: Dumbbell No.3

Measurement condition: - 20°C

Measurement speed: 500 mm/min

4. Applications

(1) Adhesion for various base materials

		S-408HQE	S-401HQ	S-400HQ	
Adhesive properties *1	Dry-peeling strength (N/25 mm)	PET	4.0	4.0	2.0
		OPP	4.0	3.0	1.0
		Al board	16.0	9.0	8.0
Low temperature adhesive *2 (5°C: Dry)		Paper broken	Interface exfoliation	Interface exfoliation	

*1: substrate: cotton broad #40/ various substrate, adhesion strength: 180°peeling strength

*2 substrate: quality paper/ PVC film, measurement: shock peeling by hand (perform adhesive measurement at 5 °C)