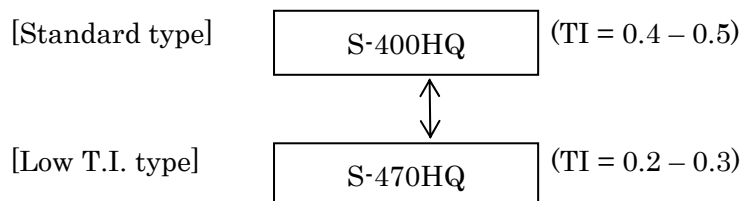


Sumikaflex 470HQ

Type:	Ethylene-Vinyl acetate Copolymer Emulsion	
Properties:	Sumikaflex 470HQ is a low change of viscosity against shear i.e. lower thixotropic index grade than the other Sumikaflex 400 series (400HQ, 401HQ, 410HQ, 450HQ, and 460HQ). As low thixotropic index, it is good handling for high-speed roller, furthermore, it can control to impregnate adhesives when it applies to more porous substrates.	
Main application:	Adhesive used	
Physical properties :		
Appearance		Milky white
Solid content (%)		55 ± 1
Viscosity (mPa·s)		2000 – 4000
pH		4 – 7
Ave. particle size (µm)		0.8
Density (g/cm ³)		1.07
MFT (°C)		0
Particle charge		Nonionic
Mechanical stability		Good
Tg (°C)		0
Tensile strength (MPa)		13.0
Elongation (%)		530

< Technical Information of Sumikaflex 470HQ >

1. Grade



2. Emulsion properties

	S-470HQ	S-400HQ
Appearance	Milky white	Milky white
Solid content (%)	55 ± 1	55 ± 1
Viscosity (mPa·s)	2000 – 4000	1100 – 1600
TI	0.2 – 0.3	0.4 – 0.5
pH	4 – 7	4 – 7
Ave. particle size (μm)	0.8	0.7
Density (g/cm ³)	1.07	1.07
MFT (°C)	0	0
Particle charge	Nonionic	Nonionic
Mechanical stability	Good	Good
Tg (°C)	0	0

TI: Thixotropic index (Log (viscosity (BL-6 rpm)/viscosity (BL-60 rpm)))

3. Film properties

(1)Tensile strength

		S-470HQ	S-400HQ
Original	Elongation (%)	530	550
	Strength (MPa)	13.0	12.7
Wet	Elongation (%)	610	600
	Strength (MPa)	3.6	3.3

Test method

Thickness of film: 0.15 mm

Shape of film: Dumbbell No.3

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

Measurement speed: 500 mm/min

Wet: Film in water at room temperature for 24 hours

(2) Water drop examination

	S-470HQ	S-400HQ
Whiting time (min)	5	2

Test method

Foam film (the thickness is 0.15 mm) on the slide glass in the room. The slide glass is on the 8 point Chinese character of the newspaper. Measure the time when the film is whitened after one droplet of water when we can't read it.

(3) Water or alkali liquid of resistance of film

		S-470HQ	S-400HQ
Water resistance	Elusion (%)	4	5
	Absorption (%)	18	16
Alkali resistance	Elusion (%)	8	9
	Absorption (%)	20	20

Test method

Thickness of film: 0.15 mm

Water resistance: Film in water for 4 days at 23 °C

Alkali liquid of resistance: Film in 1 N NaOH for 4 days at 23 °C