Sumikaflex 305HQ

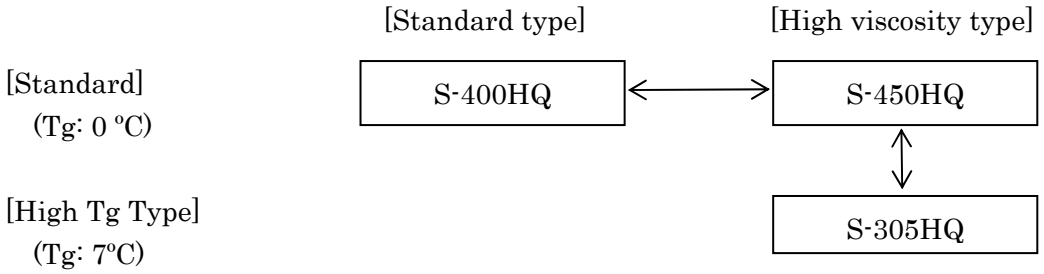
Type:	Ethylene-Vinyl acetate Copolymer Emulsion
Properties:	Sumikaflex 305HQ emulsion has a stronger polymer film than Sumikaflex 400, and it is a softer polymer than vinyl acetate emulsion. It is also excellent for water and alkali resistance. It is a pollution-free emulsion because it doesn't need to consider plasticizer transition compared to the vinyl acetate emulsion that needs it.
Main application:	Entire adhesives

Physical properties :

Appearance		Milky white
Solid content	(%)	50 ± 1
Viscosity	(mPa·s)	3500 − 6000
pH		4 − 7
Ave. particle size	(μm)	0.7
Density	(g/cm^3)	1.07
MFT	(°C)	0
Particle charge		Nonionic
Mechanical stability		Good
Tg	(°C)	7
Tensile strength	(MPa)	18.0
Elongation	(%)	420

< Technical Information of Sumikaflex 305HQ >

1. Grade



2. Emulsion properties

	Emulsion properties
Appearance	Milky white
Solid content (%)	50 ± 1
Viscosity (mPa·s)	3500 – 6000
pH	4 – 7
Ave. particle size (μm)	0.7
Density (g/cm^3)	1.07
MFT (ºC)	0
Particle charge	Nonionic
Mechanical stability	Good
Tg (ºC)	7

3. Film properties

(1) Tensile strength, Water resistance and alkali liquid resistance

	S-305HQ	S-400HQ	Vinyl acetate emulsion A	Vinyl acetate emulsion B
MFT (ºC)	0	0	0	10
DBP/emulsion	0/100	0/100	3/100	8/100
Elongation (%)	420	550	400	220
Strength (MPa)	18.0	12.7	7.8	16.7
Water resistance	Good	Good	Poor	Good
Alkali resistance	Good	Good	Solve	Solve

Test method

Thickness of film: 0.15 mm

Shape of film: Dumbbell No.3

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

Measurement speed: 500 mm/min

Water resistance: film in water for 4 days at 23ºC

Alkali liquid resistance: film in 1 N NaOH for 4 days at 23ºC

4. Application

(1) Adhesion for Paper/Paper (set time)

	S-305HQ	S-400HQ	Vinyl acetate emulsion A
Set time (second)	7	6	18

Test pieces:

Wood free paper (basic weight 90 g/m^2)/Wood free (basic weight 90 g/m^2)

Coating: Coating weight is 75 g/m^2. Coat glue on liner paper

Lamination: Laminate soon after coating and press by hand roller

Measure: Peel soon after lamination and measure the time when the paper is completely broken