SUMIKAFLEX 478HQ

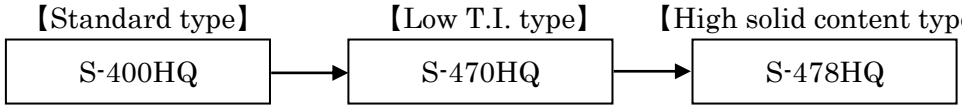
Type:	Ethylene-Vinyl acetate Copolymer Emulsion
Properties:	SUMIKAFLEX 478HQ (S-478HQ) is a grade with high solid-content and low thixotropic (TI) properties. As with SUMIKAFLEX 470HQ, it can be expected to provide the same high-speed roll suitability and staining control effects on porous materials as SUMIKAFLEX 470HQ, and in addition, the higher concentration of adhesive can be expected to increase bonding speed.
Main application:	Adhesives

Physical properties :

Appearance		Milky white
Solid content	(%)	60 ± 1
Viscosity	(mPa·s)	1000 – 5000
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
Tensile elongation	(%)	620

< Technical Information of SUMIKAFLEX 478HQ >

1. Grade positioning



TI=	0.4～0.5	0.1～0.2	0.1～0.2
NV=	54～56	54～56	59～61

2. Emulsion properties

		S-478HQ
Appearance		Milky white
Solid content	(%)	60 ± 1
Viscosity	(mPa·s)	1000 – 5000
TI		0.1 – 0.2
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

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

3. Film properties

(1) Tensile strength

		S-478HQ	S-470HQ
Original	Elongation (%)	620	530
	Strength (MPa)	13.0	13.0
Wet	Elongation (%)	710	610
	Strength (MPa)	3.2	3.6

Test method

Thickness of film	: 0.15 mm
Shape of film	: Dumbbell No.3
Film forming condition and aging	: 23ºC × 65%RH × 7 days
Wet film strength	: film in water at room temperature for 24 hours
Measurement speed	: 500 mm/min

(2) Water or alkali liquid of resistance of film

		S-470HQ	S-470HQ
Water resistance	Elusion (%)	2	4
	Absorption (%)	18	18

Test method

Thickness of film	: 0.15 mm
Water resistance	: Film immersed in water for 4 days at 23 ºC
Alkali resistance	: Film immersed in 1 N NaOH for 4 days at 23 ºC