

SUMIKAFLEX 7000HQ

Ethylene-Vinyl acetate Copolymer Emulsion			
SUMIKAFLEX 7000HQ (S-7000HQ) is a high solid-content type emulsion that can contribute to shorter drying and bonding processes during application. Thanks to its high concentration and low viscosity, it allows for a wide range of formulation options, expanding flexibility in selecting additives.			
General adhesives for paper and textiles Inkjet-printed paper			
Physical properties:			
Appearance Solid content Viscosity pH Ave. Particle size		Milky white 69.5 - 72.0 700 - 2500 4 - 7 0.8	
charge e stability strength elongation	(g/cm ³) (°C) (°C) (MPa) (%)	1.09 0 Nonionic Good 0 5.4 810	
	Ethylene-V SUMIKAF emulsion processes of low viscosi expanding General ac textiles Inkjet-prin perties: nce ntent v rticle size charge e stability strength elongation	Ethylene-Vinyl acetate Cope SUMIKAFLEX 7000HQ (S- emulsion that can contrib processes during application low viscosity, it allows for expanding flexibility in select General adhesives for paper textiles Inkjet-printed paper perties: nce ntent (%) y (mPa·s) ticle size (µm) (g/cm ³) (°C) charge e stability (°C) strength (MPa) elongation (%)	



< Technical Information of SUMIKAFLEX 7000HQ >

1. Grade positioning



2. Emulsion properties

		S-7000HQ
Appearance		Milky white
Solid content	(%)	69.5 - 72.0
Viscosity	(mPa·s)	700 - 2500
pH		4 - 7
Ave. particle size	(µm)	0.8
Density	(g/cm ³)	1.09
MFT	(°C)	0
Particle charge		Nonionic
Mechanical stability		Good
Tg	(°C)	0



3. Film properties

(1) Film tensile strength

Item		S-7000HQ	S-467HQ	S-400HQ
Dry	Elongation (%)	810	790	550
	Strength (MPa)	5.4	5.8	12.7
Wet	Elongation (%)	730	840	600
	Strength (MPa)	2.7	2.0	3.3

Test method

Thickness of film	: 0.15 mm	
Film forming condition	: 23°C × 65%RH × 7 days	
and aging		
Film shape	: Dumbbell No.3	
Dry film strength	$:23^{\circ}\text{C} \times 65\%\text{RH}$	
Wet film strength	: Dipped film in water for 24 hours at 23°C,	
	measured in wet condition	
Measurement speed	: 500 mm/min	