

# Covinax SMA-01

**Covinax SMA-01** is a surfactant stabilized vinyl acrylic copolymer emulsion developed for repositionable or semi-removable pressure sensitive adhesive applications. It will perform as a repositionable tape or label from surfaces, including glass, metal and plastics, exhibiting smooth non-tearing adhesion. Covinax SMA-01 when used in conjunction with a vinyl face stock is an excellent adhesive for retail shelf label applications. Covinax SMA-01 is FDA compliant under 21 CFR 175.105.

## PHYSICAL PROPERTIES

**Polymer Type:** Acrylic

**Protective System:** Anionic/Non-Ionic/PVA

**Color:** White

**Viscosity (cps):** 150-850 (RVF, Spindle #3/50 RPM /77°F)

**Percent Solids:** 55.3 - 58.3

**pH:** 5.7 - 6.8

**Weight Per Gallon:** 8.5

**Shelf Life:** 3 months

**Freeze/Thaw Stability:** Unstable

**Glass Transition Temperature (T<sub>g</sub>): (DSC):** -40.4 °C



## PERFORMANCE PROPERTIES

A 1 mil (28g/m<sup>2</sup>) dry film of Covinax SMA-01 cast directly onto 1 mil thickness polyester film will exhibit the following average performance properties when tested on #304 stainless steel, which has a #3 surface finish.

Test	Typical Values	Specification Range
180° Peel Adhesion <sup>1</sup> (lbs)	1.8	1.4 minimum
178° Shear Adhesion <sup>2</sup> (minutes)	90	No specification
Loop Tack <sup>3</sup> (lbs)	1.5	0.9 minimum

**FDA Compliance:** 21 CFR 175.105

<sup>1</sup>Franklin International 03QC5002, 30 minute dwell

<sup>2</sup>Franklin International 03QC5003, 0.25 square inch, 500 gram load

<sup>3</sup>Franklin International 03QC5004, 1 square inch contact, 1 second dwell



## AVERAGE APPLICATION PROPERTIES

TEST/SUBSTRATE	Facestock: Paper				Facestock: BOPP Film			
	LDPE	HDPE	Vinyl	Corrugate	LDPE	HDPE	Vinyl	Corrugate
180° peel (lb/lineal inch width) 30 minute dwell	0.74 A	0.73 A	PT	0.48 A	0.81 A	0.66 A	PT	0.77 A
90° peel (lb/lineal inch width) 30 minute dwell	0.88 A	0.75 A	1.5 PT	0.82 FP	1.1 A	0.79 A	2.2 T	0.99 FP
Loop Tack (lb)	0.84 A	0.58 A	2.6 A	0.98 A	0.63 A	0.91 A	2.6 A	1.6 A

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in <sup>2</sup> ) (minutes)	706 C	52 C	91 C
SAFT Testing (min/temp °C)	133 Min./155° C	66Min./85° C	75 Min./105° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

A = Adhesive    C = Cohesive    FP = Fiber pick    PT = Paper Tear    T = Transfer

## ADDITIONAL INFORMATION

### Yellowing (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
4.92	7.93	2.68	3.53

### IMPORTANT NOTICE TO CUSTOMER:

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