

## Covinax 525-08

**Covinax 525-08** is a coater-ready, surfactant stabilized, tackified vinyl acrylic adhesive developed for high performance permanent pressure sensitive applications. It has an excellent balance of peel adhesion and shear adhesion. Covinax 525-08 is internally crosslinked, giving it superior cohesive strength. It will resist cold flow and will die cut and convert well, giving dry edges to finished sheets and rolls. This product was designed to be transfer coatable on slot die coaters. Covinax 525-08 is FDA compliant under 21CFR 175.105, 16CFR 1500.3(C)(4) and 16CFR 1500.(C)(2)(i).

### PHYSICAL PROPERTIES

**Polymer Type:** Vinyl Acrylic

**Protective System:** Anionic

**Color:** Off white

**Viscosity (cps):** 4000 - 5800 (RVF, Spindle #3/10RPM/77 °F)

**Percent Solids:** 55.0 - 59.0

**pH:** 5.0 - 6.0

**Weight Per Gallon:** 8.5

**Shelf Life:** 3 months

**Freeze/Thaw Stability:** Unstable

**Glass Transition Temperature (T<sub>g</sub>):(DSC):** -24.5 °C

### PERFORMANCE PROPERTIES

A 1 mil (28g/M<sup>2</sup>) dry film of Covinax 525-08 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)	3.3	2.8 minimum
178° Shear Adhesion <sup>2</sup> (minutes)	512	350 minimum
Loop Tack <sup>3</sup> (lbs)	4.1	2.3 minimum

**FDA Compliance:** 21 CFR 175.105  
16 CFR 1500.3(C)(4)  
16 CFR 1500.3(C)(2)(i)

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

<sup>2</sup>Franklin International 03QC5003, 0.25 square inch, 500 gram load, 30 minute dwell.

<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	3.5 A	3.0 A	1.4 PT	1.9 FP	2.2 A	1.7 A	3.6 A	1.4 PT
90° peel (lb/lineal inch width) 30 minute dwell	1.4 PT	1.7 A	1.5 PT	1.2 FP	2.0 A	1.5 A	3.5 A	1.2 PT
Loop Tack (lb)	2.0	2.9	3.9	2.7	1.1	0.98	2.6	1.3

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in <sup>2</sup> ) (minutes)	508 C	675 C	512 C
SAFT Testing (min/temp° C)	63/89° C	55/80° C	63/94° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

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

## ADDITIONAL INFORMATION

### Yellowing (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
5.38	12.90	1.07	15.13

### IMPORTANT NOTICE TO CUSTOMER:

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