



Covinax 525-00

PRODUCT DESCRIPTION

Covinax 525-00 is a surfactant stabilized, internally crosslinked, vinyl acrylic copolymer emulsion developed for high performance permanent pressure sensitive adhesive applications. It has an excellent balance of peel adhesion and shear adhesion. Covinax 525-00 will resist cold flow and will die cut and convert well, giving dry edges to finished sheets and rolls. It is readily tackified by commercially available tackifiers. Covinax 525-00 is FDA compliant under 21CFR 175.105.

PHYSICAL PROPERTIES

Polymer Type:	Vinyl Acrylic	Freeze/Thaw Stability:	Unstable
Protective System:	Anionic	Weight Per Gallon:	8.5
Viscosity (cps):	300 Max (RVF, Spindle #2/100 RPM/77°F)	Color:	White
Percent Solids:	57.0-61.0	Shelf Life:	3 months
pH:	3.80-4.80		
Glass Transition Temperature (Tg):(DSC):	-35.7°C		
	(DMA): -13.7°C		

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 525-00 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 ¹ (lbs)	2.40	2.00 minimum
178° Shear Adhesion ² (minutes)	1063	500 minimum
Loop Tack ³ (lbs)	2.50	1.80 minimum

FDA Compliance: 21CFR 175.105

¹ Franklin International 03QC5002, 30 minute dwell.

² Franklin International 03QC5003, 0.25 square inch, 500 gram load, 10 minute dwell.

³ Franklin International 03QC5004, 1 square inch contact, 1 second dwell.

**Covinax 525-00****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	0.715A	0.967A	0.821PT	1.561FP	0.955A	0.554A	5.920C	2.260A
90° peel (lb/lineal inch width) 30 minute dwell	0.684A	0.669A	0.889PT	0.751A	0.875A	0.703A	5.056T	1.278FP
Loop Tack (lb)	0.75	1.39	4.55	2.31	0.81	1.18	2.62	2.15

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	535C	640C	1,063C
SAFT Testing (min/temp° C)	92/7° C	168/139° C	165/136° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

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

ADDITIONAL INFORMATION**Yellowing** (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
1.15	2.35	-1.33	2.56

The data provided in this Product Data Sheet represents typical physical and/or performance values for the product under a given set of testing conditions. The ranges or values are not specifications. Specifications are set based on statistical analysis of measurements made by the quality control laboratory on production material and will accurately reflect production capabilities. This data should be used as a guide for product selection only.

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