



# Covinax 165-00

## PRODUCT DESCRIPTION

**Covinax 165-00** is a surfactant stabilized acrylic copolymer emulsion developed for semi-removable or repositionable applications. Its primary end use is for removable paper and film labels where the labeled substrates are metal, film, plastic, glass and overprinted or painted surfaces. Covinax 165-00 coated labels applied to substrates will show an increase in peel over time, becoming a permanent adhesive on paper substrates. In addition to pressure sensitive labels, the product has found use in palletizing, shelf marking labels and resealable envelopes.

Covinax 165-00 is FDA compliant under 16CFR 1500.3 (C)(4), 16CFR 1500.3 (C)(2)(i), 21 CFR 175.105.

## PHYSICAL PROPERTIES

<b>Polymer Type:</b>	Acrylic	<b>Freeze/Thaw Stability:</b>	Unstable
<b>Protective System:</b>	Anionic	<b>Weight Per Gallon:</b>	8.6
<b>Viscosity (cps):</b>	2200-3200 (RVF, Spindle #3/10 RPM/77 °F)	<b>Color:</b>	White
<b>Percent Solids:</b>	59.0%-62.0%	<b>Shelf Life:</b>	3 months
<b>pH:</b>	5.0-6.5		
<b>Glass Transition Temperature (T<sub>g</sub>):(DSC):</b>	-56.0 °C		
<b>(DMA):</b>	-37.8 °C		

## PERFORMANCE PROPERTIES

A 1 mil (28g/M<sup>2</sup>) dry film of Covinax 165-00 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 <sup>1</sup> (lbs)	1.4	1.1 – 1.8
178° Shear Adhesion <sup>2</sup> (minutes)	110	30 minimum
Loop Tack <sup>3</sup> (lbs)	2.6	1.6 – 3.4

**FDA Compliance:** 16CFR 1500.3 (C)(4)  
16CFR 1500.3 (C)(2)(i)  
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, 10 minute dwell.

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

**Covinax 165-00****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	1.0 A	0.7 PT	1.0 PT	1.2 FP	1.1 A	1.1 A	2.0 A	1.2 A
90 °peel (lb/lineal inch width) 30 minute dwell	1.0 A	0.8 A	1.6 A	1.0 A	1.0A	0.9 A	1.1 A	0.9 A
Loop Tack (lb)	1.6	2.5	3.5	2.2	1.4	1.7	2.3	2.1

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178 °Shear (500 g, 0.25 in <sup>2</sup> ) (minutes)	22 C	47 C	110
SAFT Testing (min/temp °C)	41 min/52 °C	45 min/53 °C	111 min/102 °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
0.67	3.01	-1.58	3.59

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.

**Important Notice to Purchaser:** Our recommendations, if any, for use of this product are based on tests believed to be reliable. The greatest care is exercised in the selection of our materials and in our manufacturing operations. However, we make no recommendation to use this product in any manner which conflicts with existing laws and/or patents and WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS PRODUCT OR ITS USE, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, THE MANUFACTURER IS NOT LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND. Revised 07/14/08.

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