

Covinax 331-00

PRODUCT DESCRIPTION

Covinax 331-00 is a surfactant stabilized acrylic copolymer, which was developed for permanent pressure sensitive applications requiring high tack and peel strength. Covinax 331-00 exhibits excellent adhesion to corrugated board, polyolefin films and most types of foams. It also forms permanent bonds whether at room temperature or refrigerator temperatures. Its wide adhesion range allows it to be used in a variety of different applications, including all temperature grade labels.

Covinax 331-00 is FDA compliant under 21CFR 175.105 and 176.180.

PHYSICAL PROPERTIES

Polymer Type:	Vinyl acrylic	Freeze/Thaw Stability:	Unstable
Protective System:	Anionic	Weight Per Gallon:	8.6
Viscosity (cps):	60 – 300 (LVF, Spindle #2/60 RPM/77°F)	Color:	White
Percent Solids:	59.5 - 62.0	Shelf Life:	6 months
pH:	4.00 – 5.00		
Glass Transition Temperature (Tg): (DSC):	-41.5°C		
	(DMA): -21.9°C		

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 331-00 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)	4.60	3.50 minimum
178° Shear Adhesion ² (minutes)	30	10-60
Loop Tack ³ (lbs)	3.30	2.00 minimum

FDA Compliance: 21CFR 175.105
21CFR 176.180

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 331-00****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	0.829A	0.764A	1.559PT	0.884FP	1.630A	1.260A	4.320C	4.060C
90° peel (lb/lineal inch width) 30 minute dwell	0.770A	0.737A	0.725PT	0.622A	1.453A	1.129A	4.424 G/Z	1.849FP
Loop Tack (lb)	0.80	1.18	3.57	1.04	1.21	1.89	3.87	3.19

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	28C	27C	30C
SAFT Testing (min/temp °C)	78/78° C	33/47° C	43/49° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

C = Cohesive A = Adhesive PT = Paper Tear GZ= Ghosting/Zippy 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
0.82	2.34	-1.41	2.79

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 07/15/08.

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