



Covinax 210-00

PRODUCT DESCRIPTION

Covinax 210-00 is a surfactant stabilized acrylic copolymer emulsion developed for ultra-removable pressure sensitive adhesive applications. It will perform well as a removable tape or label from most surfaces, including paper, glass, metal and plastics, exhibiting smooth non-tearing adhesion and maintains very constant peel adhesion even after extended aging.

Covinax 210-00 is FDA compliant under:

21 CFR 175.105, 21 CFR 176.170, 21 CFR 176.180, 16 CFR 1500.3(C)(2)(i), 16 CFR 1500.3(C)(4).

PHYSICAL PROPERTIES

Polymer Type:	Acrylic	Freeze/Thaw Stability:	Unstable
Protective System:	Anionic	Weight Per Gallon:	8.43
Viscosity (cps):	200 Max (RVF, Spindle #2/100RPM/77° F)	Color:	White
Percent Solids:	57.0 – 60.0	Shelf Life:	6 months
pH:	3.50 – 5.50		
Glass Transition Temperature (T_g):(DSC):	-53.4° C		
	(DMA): -34.6° C		

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 210-00 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)	0.45	0.15 – 0.85
178° Shear Adhesion ² (minutes)	335	75 minimum
Loop Tack ³ (lbs)	0.80	0.40 – 1.20

FDA Compliance:	21 CFR 175.105	16 CFR 1500.3(C)(4)
	21 CFR 176.170	16 CFR 1500.3(C)(2)(i)
	21 CFR 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 210-00****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	0.061A	0.079A	1.25A	0.020A	0.213A	0.170A	0.841A	0.228A
90 °peel (lb/lineal inch width) 30 minute dwell	0.099A	0.113A	1.05A	0.003A	0.354A	0.245A	0.994A	0.216A
Loop Tack (lb)	0.24	0.57	1.13	0.09	0.35	0.61	0.82	0.62

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178 °Shear (500 g, 0.25 in ²) (minutes)	9A	107C	335C
SAFT Testing (min/temp °C)	129/155 °C	128/154 °C	122/155 °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
4.75	7.32	2.45	6.14

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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