

Covinax 210-05

COVINAX 210-05 is a low VOC, surfactant stabilized acrylic copolymer emulsion developed for ultra-clear removable pressure sensitive adhesive applications. It is formulated for coating on gravure and roll-coating equipment. It will perform well as a removable tape or label adhesive from most surfaces, including paper, glass, metal and plastics, exhibiting smooth non-tearing adhesion and maintains constant, non-zippery peel adhesion even after extended aging.

Covinax 210-05 is FDA compliant under 21 CFR 175.105, 21 CFR 176.170, and 21 CFR 176.180.



PHYSICAL PROPERTIES

Polymer Type: Acrylic

Protective System: Anionic

Color: White

Viscosity (cps): 100 - 600 (RVF, Spindle #2/50 RPM/77°F)

Percent Solids: 58.0 - 60.5

pH: 5.7 - 6.6

Weight Per Gallon: 8.39

Freeze/Thaw Stability: Unstable

Shelf Life: 6 months

Glass Transition Temperature (T_g):(DSC): -53.6 °C

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 210-05 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)	0.30	0.10 - 0.85
178° Shear Adhesion ² (minutes)	N/A	No specification
Loop Tack ³ (lbs)	0.70	0.40 - 1.2

FDA Compliance: 21 CFR 175.105
21 CFR 176.170
21 CFR 176.180

¹Franklin International 03QC5002, 30 minute dwell.

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

³Franklin 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	0.06A	0.08A	0.80A	0.02A	0.21A	0.20A	0.91A	0.17A
90° peel (lb/lineal inch width) 30 minute dwell	0.13A	0.12A	0.94A	0.003A	0.39A	0.24A	0.97A	0.19A
Loop Tack (lb)	0.25	0.28	1.02	0.04	0.53	0.47	1.0	0.48

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	1A	12A	Not Tested
SAFT Testing (min/temp° C)	46/72° C	76/130° C	105/131° 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
4.76	7.33	2.83	5.71

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