

Covinax 225-00

Covinax 225-00 is a surfactant stabilized acrylic copolymer emulsion developed for ultra-removable pressure sensitive applications for tapes and labels. It has extremely high cohesive strength and maintains very constant peel adhesion with aging. Covinax 225-00 is removable from most substrates including paper, film, glass and painted surfaces. Covinax 225-00 is APE-free and FDA compliant under 21CFR 175.105, 21CFR 176.170 and 21CFR 176.180.

PHYSICAL PROPERTIES

Polymer Type: Acrylic

Protective System: Anionic Surfactant

Color: White

Viscosity (cps): 30 - 430 (RVF, Spindle #3/50 RPM /77 °F)

Percent Solids: 59.5% - 62.0%

pH: 4.8 - 5.6

Weight Per Gallon: 8.6 lb

Shelf Life: 6 months

Freeze/Thaw Stability: Unstable

Glass Transition Temperature (T_g): (DSC): -44.9 °C



PERFORMANCE PROPERTIES

A 1 mil (28 g/m²) dry film of Covinax 225-00 cast directly onto 1 mil thickness polyester film will exhibit the following average performance properties when tested on #304 stainless steel with a #3 surface finish.

Test	Typical Values	Specification Range
180° Peel Adhesion ¹ (lb)	0.30	0.60 maximum
178° Shear Adhesion ² (minutes)	1200	30 minimum
Loop Tack ³ (lb)	0.70	0.4 - 1.1

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, 1000 gram load

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	0.18 A	0.17 A	0.88 A	0.05 A	0.15 A	0.16 A	1.6 T/A	0.40 A
90° peel (lb/lineal inch width) 30 minute dwell	0.23 A	0.20 A	0.43 A	0.07 A	0.22 A	0.17 A	1.1 T	0.41 L/A
Loop Tack (lb)	0.50	0.71	1.2	0.20	0.59	0.61	1.9	0.34

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (1000 g, 0.25 in ²) (minutes)	15 G	427 G	478
SAFT Testing (min/temp °C)	130 min/155°C	119 min/144°C	121 min/155°C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

A = Adhesive C = Cohesive G = Ghosting L = Legging T = Transfer

ADDITIONAL INFORMATION

Yellowing (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140°F) Paper	
Before	After	Before	After
5.38	6.44	2.95	3.52

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