



Covinax 113-00

PRODUCT DESCRIPTION

Covinax 113-00 is a surfactant stabilized vinyl acrylic copolymer emulsion developed for permanent applications requiring high heat resistance. It has high shear and moderate tack, and a high degree of carboxyl functionality, which allows it to maintain its high shear at elevated temperatures.

PHYSICAL PROPERTIES

Polymer Type:	Vinyl Acrylic	Freeze/Thaw Stability:	Unstable
Protective System:	Anionic	Weight Per Gallon:	8.5
Viscosity (cps):	700 Max (LVF, Spindle #3/60 RPM /77°F)	Color:	White
Percent Solids:	49.0%-51.0%	Shelf Life:	3 Months
pH:	4.2-4.8		
Glass Transition Temperature (T_g): (DSC):	-34.7°C		
	(DMA): -10.1°C		

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of [Product name] 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	Target Range
180° Peel Adhesion ¹ (lbs)	1.61	1.30-2.00
178° Shear Adhesion ² (minutes)	574	Don't run
Loop Tack ³ (lbs)	2.20	1.30-2.90

FDA Compliance: 21 CFR 175.105
21 CFR 176.180

¹ Franklin International 03QC5002

² Franklin International 03QC5003

³ Franklin International 03QC5004

**Covinax 113-00****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	0.59A	0.79A	PT	1.57A	0.57A	0.75A	2.93A	1.15CF
90 °peel (lb/lineal inch width) 30 minute dwell	0.90A	0.81Z	0.53CF	0.87FP	0.87A	0.69Z	2.29T	0.78FP
Loop Tack (lb)	1.19A	1.92A	3.92PT	0.56A	0.72A	1.20A	3.11A	0.96

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178 °Shear (500 g, 0.25 in ²) (minutes)	949C	1,353C	574C
SAFT Testing (min/temp °C)	99 Min./99 °C	118 Min./140 °C	133 Min./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
4.92	7.75	2.99	3.54

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.

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