

Covinax 324-39

Covinax 324-39 is a coater-ready surfactant stabilized vinyl acrylic copolymer for general purpose permanent pressure sensitive adhesives in tape and label applications.

Covinax 324-39 has a good balance of peel and tack, which allow it to be used in a wide variety of applications. It exhibits excellent adhesion to corrugated, polyolefin films, glass and metals. It displays excellent converting properties. Covinax 324-39 can be transfer coated on most rod, gravure or roll coaters. Covinax 324-39 is FDA compliant under 21CFR 175.105.



PHYSICAL PROPERTIES

Polymer Type: Vinyl acrylic

Protective System: Anionic

Color: White

Viscosity (cps): 400 Max (RVF, Spindle #2/100 RPM/77 °F)

Percent Solids: 55.0 - 58.0

pH: 6.0 - 7.0

Weight Per Gallon: 8.6

Shelf Life: 4 months

Freeze/Thaw Stability: Unstable

Glass Transition Temperature (T_g):(DSC): -42.3 °C

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 324-39 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)	3.6	No specification
178 ° Shear Adhesion ² (minutes)	90	50 minimum
Loop Tack ³ (lbs)	2.2	No specification

FDA Compliance: 21CFR 175.105

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	1.1 A	0.64 A	4.5 PT	1.8 FP	0.97 A	0.59 A	4.7 C	2.3 A
90° peel (lb/lineal inch width) 30 minute dwell	0.99 A	0.59 A	3.5 PT	1.0 A	0.96 A	0.59 A	3.2 A	1.2 FP
Loop Tack (lb)	1.0	1.3	3.8	2.4	0.54	0.81	2.9	2.2

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	87 C	100 C	74 C
SAFT Testing (min/temp° C)	122/155° C	44/76° C	58/90° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

A = Adhesive C = Cohesive FP = Fiber pick PT = Paper Tear

ADDITIONAL INFORMATION

Yellowing (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
4.84	7.08	2.83	5.21

IMPORTANT NOTICE TO CUSTOMER:

The recommendations and data contained in this Product Data Sheet for use of this product are based on information Franklin believes to be reliable. They are offered in good faith without guarantee, as conditions and methods of use of our product by Customer are beyond Franklin's control. Customer must determine the suitability of the product for a particular application before adopting it on a commercial scale.

All orders for Franklin products shall be subject to Franklin International, Inc.'s Standard Terms and Conditions of Sale which may be found at http://www.franklini.com/Terms_and_Conditions.aspx ("Standard Terms"). Different or additional terms proposed by Customer are expressly rejected and shall not become part of the agreement between Customer and Franklin International, Inc. with respect to any order. Contact Franklin International, Inc. immediately if you cannot access our Standard Terms and we will provide you a copy upon request. Any sale of products by Franklin to Customer is expressly conditional upon Customer's consent to the Standard Terms, and Customer's acceptance of any performance by, or receipt of products from, Franklin International, Inc. shall constitute Customer's acceptance of the Standard Terms and Conditions of Sale.

© Copyright 2018. All rights reserved. Franklin International. Revised 06/25/18.