

Pressure Sensitive Adhesives

# Covinax 169-00 High Tack Packaging Adhesive

**Covinax 169-00** is a polyvinyl alcohol stabilized vinyl acrylic copolymer emulsion developed for a variety of permanent pressure sensitive applications requiring very aggressive tack. It exhibits outstanding adhesion to most synthetic films, including treated and untreated polyethylene and polypropylene, Tyvek and Cryovac. It performs well in low temperatures and is widely used in packaging applications both formulated and as a straight polymer. Covinax 169-00 can be formulated into a wash-away adhesive by the addition of a nonionic surfactant. The polyvinyl alcohol colloid allows easy cleanup and imparts excellent machining. It can be applied with a knife, rod, roller coater or extruded in beads for various packaging applications. Covinax 169-00 is FDA compliant under 21CFR 175.105.



## PHYSICAL PROPERTIES

Polymer Type: Vinyl Modified Acrylic Copolymer

Protective System: Polyvinyl alcohol

Color: White

Viscosity (cps): 1600 - 3400 (LVF, Spindle #4/60RPM/77° F)

Percent Solids (%): 58.0 - 60.0

**pH:** 4.5 - 5.5

Weight Per Gallon: 8.5

Glass Transition Temperature (Tg): (DSC): -42.8° C

# PERFORMANCE PROPERTIES

A 1 mil (28g/m²) dry film of Covinax 169-00 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.

<b>Test</b>	Typical Values	Specification Range
180° Peel Adhesion¹ (lb)	3.6	3.0 minimum
178° Shear Adhesion² (minutes)	27	5 minimum
Loop Tack³ (lb)	3.2	2.5 minimum
Minimum Application Temperature:	10°F to 20°F	N/A
Service (Use) Temperature:	-20°F to 250°F	N/A

NOTE: Minimum application and service temperatures are dependent upon many factors including face stock, adhesive coat weight, adhesion, and intended application. We can only offer an estimate based on the Tg and typical performance properties of the adhesive.

FDA Compliance: 21CFR 175.105



<sup>&</sup>lt;sup>1</sup>Franklin International 03QC5002, 30 minute dwell.

<sup>&</sup>lt;sup>2</sup>Franklin International 03QC5003, 0.25 square inch, 500 gram load, 10 minute dwell.

<sup>&</sup>lt;sup>3</sup>Franklin International 03QC5004, 1 square inch contact, 1 second dwell.

# AVERAGE APPLICATION PROPERTIES

TEOT/OUDOTDATE	Facestock: Paper			Facestock: BOPP Film				
TEST/SUBSTRATE	LDPE	HDPE	Vinyl	Corrugate	LDPE	HDPE	Vinyl	Corrugate
180° peel (lb/lineal inch width) 30 minute dwell	PT	PT	PT	PT	3.5 C	3.7 C	3.8 C	PT
90° peel (lb/lineal inch width) 30 minute dwell	2.1 A	2.4 A	6.0 T	1.5 A	1.6 A	1.7 A	4.9 A	1.4 A
Loop Tack (lb)	2.9	4.3	6.5	3.1	1.6	3.6	4.6	1.5

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar	
178° Shear (500 g, 0.25 in²) (minutes)	27 C	34 C	27 C	
SAFT Testing (min/temp° C)	39/62.3° C	27.3/62.3° C	31.3/66.3° C	
Substrate: Stainless Steel Coat weight: 1.0 mil (+/-0.1 mil)				

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

# ADDITIONAL INFORMATION

Yellowing (Colorimeter "b" value)

UV Exposure <i>(1 week)</i> Mylar		Heat Exposure (1 week @ 140° F) Paper		
Before	After	Before	After	
4.64	7.02	2.60	4.35	

### STORAGE AND HANDLING

**Shelf life:** Best if used within four months of date of manufacture. Mix before use for best results. Product is not freeze/thaw stable.

For additional questions, Franklin's technical service team is available at 1.800.877.4583. **24/7** technical service is available online at <a href="https://www.franklinadhesivesandpolymers.com">www.franklinadhesivesandpolymers.com</a>.

#### 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 <a href="http://www.franklini.com/Terms">http://www.franklini.com/Terms</a> 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 the Standard Terms and Conditions of Sale.

© Copyright 2023All rights reserved. Franklin International. Revised 06/20/2023.

