

Covinax 169-04

High Tack Packaging Adhesive

Covinax 169-04 is a polyvinyl alcohol stabilized vinyl acrylic copolymer emulsion developed for a variety of permanent pressure sensitive applications requiring very aggressive wet and dry 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. Covinax 169-04 is formulated to be a wash-away adhesive. The polyvinyl alcohol colloid allows easy cleanup and imparts excellent machining. It can be applied with a knife, rod, roll coater or extruded in beads for various packaging applications.



PHYSICAL PROPERTIES

Polymer Type: Vinyl acrylic

Protective System: Polyvinyl alcohol

Color: White

Viscosity (cps): 4,000 - 6,000 (LVF, Spindle #4/60 RPM /77° F)

Percent Solids (%): 57.0 - 60.0

pH: 4.5 - 5.5

Weight Per Gallon: 8.5

Glass Transition Temperature (Tg): -50° C

PERFORMANCE PROPERTIES

A 1 mil (28g/m²) dry film of Covinax 169-04 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 (lb)	3.1	No specification
178° Shear Adhesion ² (minutes)	27	10 - 55
Loop Tack ³ (lb)	3.1	No specification
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: 21 CFR 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	2.7A	3.1A	4.8C	0.75A	2.5C/A	1.0T	1.3T	0.50A
90° peel (lb/lineal inch width) 30 minute dwell	1.2A	1.3A	2.8A	0.51A	1.2T	1.1T	1.2T	0.41T/S
Loop Tack (lb)	2.1	2.7	2.8	1.4	2.6	2.5	3.1	1.2

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	20 C	13 C	Not Tested
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

A = Adhesive C = Cohesive S = Stain T = Transfer

STORAGE AND HANDLING

Shelf life: Best if used within three 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 www.franklinadhesivesandpolymers.com.

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