

# Covinax 386-07

## General Purpose Permanent

**Covinax 386-07** is a coater-ready surfactant stabilized vinyl acrylic product developed for use as a permanent pressure sensitive film label adhesive. Covinax 386-07 is a moderate shear product with good loop tack, and is used in vinyl, polyester, and other film and paper label applications. In addition, the dry film clarity, cold flow resistance and high cohesive strength of Covinax 386-07 permits it to be used as an overlaminating film adhesive. It is transfer coatable onto most release liners on rod, gravure or roll coaters. Covinax 386-07 is FDA compliant under 16CFR 1500.3 (C)(4).



### PHYSICAL PROPERTIES

**Polymer Type:** Vinyl Modified Acrylic Copolymer

**Protective System:** Anionic

**Color:** White

**Viscosity (cps):** 300 - 600 (RVF, Spindle #3/50 RPM/77° F)

**Percent Solids (%):** 57.0 - 60.0

**pH:** 6.5 - 7.5

**Weight Per Gallon:** 8.6

**Glass Transition Temperature (Tg):(DSC):** -42.0° C

### PERFORMANCE PROPERTIES

A 1 mil (28g/m<sup>2</sup>) dry film of Covinax 386-07 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 <sup>1</sup> (lb)	1.7	1.6 minimum
178° Shear Adhesion <sup>2</sup> (minutes)	215	150 minimum
Loop Tack <sup>3</sup> (lb)	1.8	1.3 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:** 16CFR 1500.3 (C)(4)

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

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

<sup>3</sup>Franklin 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	0.90 A	PT	0.84 FP	0.12 A	0.65 A	3.5 C	PT
90° peel (lb/lineal inch width) 30 minute dwell	0.27 A	0.81 A	PT	0.33 FP	0.22 A	0.57 A	2.4 T	0.50 FP
Loop Tack (lb)	0.44	0.74	1.6	0.85	0.37	0.88	1.7	0.99

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in <sup>2</sup> ) (minutes)	945 C	540 C	215 C
SAFT Testing (min/temp° C)	129.0/155.0° C	110.0/148.8° C	129.0/155.0° 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 (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
4.59	6.46	3.36	3.77

## 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](http://www.franklinadhesivesandpolymers.com).

### 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.

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