

# Covinax 377-00

## High Shear Permanent PSA

**Covinax 377-00** is a specialty emulsion polymer with very high shear performance and excellent wing-up resistance. Covinax 377-00 can be used in masking and is a suitable base polymer for vinyl film applications. Covinax 377-00 exhibits 1.5 pli average peel adhesion from stainless steel and good heat/humidity resistance. It also shows >10,000 minutes of shear on a ½ x ½ inch bond line under 500g static load.



### PHYSICAL PROPERTIES

**Polymer Type:** Acrylic

**Protective System:** Anionic

**Color:** White

**Viscosity (cps):** 50 - 250 (RVF, Spindle #3/50RPM/77° F)

**Percent Solids (%):** 57.5 - 59.5

**pH:** 4.7 - 5.8

**Weight Per Gallon:** 8.6

**Glass Transition Temperature (Tg): (DSC):** -37.1° C

### PERFORMANCE PROPERTIES

A 1 mil (28g/m<sup>2</sup>) dry film of Covinax 377-00 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.

Test	Typical Values	Specification Range
180° Peel Adhesion <sup>1</sup> (lb)	1.6	1.3 - 1.8
178° Shear Adhesion <sup>2</sup> (minutes)	232	145 minimum
Loop Tack <sup>3</sup> (lb)	N/A	No Specification
<b>Minimum Application Temperature:</b>	>32°F	N/A
<b>Service (Use) Temperature:</b>	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:** NONE

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

<sup>2</sup>Franklin International 03QC5003, 0.25 square inch, 1000 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	0.27 A	1.4 A	PT	0.67 FP	0.26 A	0.82 A	3.0 A	PT
90° peel (lb/lineal inch width) 30 minute dwell	0.31 A	0.68 A	PT	0.15 A	0.24 A	0.41 A	2.0 T	0.19 A
Loop Tack (lb)	0.46	1.4	1.9	0.22	0.39	0.87	1.5	0.97

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (1000 g, 0.25 in <sup>2</sup> ) (minutes)	1345 C	194 C	232 C
SAFT Testing (min/temp° C)	132/155° C	104.7/145.7° C	132/155° 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
4.78	5.03	3.42	3.87

## STORAGE AND HANDLING

**Shelf life:** Best if used within six 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:

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