



# Covinax 377-00

## PRODUCT DESCRIPTION

**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 can be used on vinyl films. 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 bondline under 500g static load.

Covinax 377-00 is FDA compliant under 21CFR 175.105, 21CFR 176.170 and 21CFR 176.180.

## PHYSICAL PROPERTIES

<b>Polymer Type:</b>	Acrylic	<b>Freeze/Thaw Stability:</b>	Unstable
<b>Protective System:</b>	Anionic	<b>Weight Per Gallon:</b>	8.60
<b>Viscosity (cps):</b>	50 – 250 (RVF, Spindle #3/50RPM/77° F)	<b>Color:</b>	White
<b>Percent Solids:</b>	57.5 – 59.5	<b>Shelf Life:</b>	6 months
<b>pH:</b>	5.30 – 6.30		
<b>Glass Transition Temperature (T<sub>g</sub>): (DSC):</b>	-37.1 °C		
	(DMA): -21.1 °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> (lbs)	1.62	1.30 – 1.80
178° Shear Adhesion <sup>2</sup> (minutes)	232	145 minimum
Loop Tack <sup>3</sup> (lbs)	DNR	DNR

**FDA Compliance:** 21CFR 175.105  
21CFR 176.170  
21CFR 176.180

<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.

**Covinax 377-00****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	0.270A	1.410A	PT	0.666FP	0.259A	0.822A	2.970A	PT
90° peel (lb/lineal inch width) 30 minute dwell	0.310A	0.676A	PT	0.148A	0.238A	0.411A	2.010T	0.194A
Loop Tack (lb)	0.46	1.43	1.91	0.22	0.39	0.87	1.48	0.97

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (1000 g, 0.25 in <sup>2</sup> ) (minutes)	1345C	194C	232C
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)	

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

**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

The data provided in this Product Data Sheet represents typical physical and/or performance values for the product under a given set of testing conditions. The ranges or values are not specifications. Specifications are set based on statistical analysis of measurements made by the Quality Control Laboratory on production material and will accurately reflect production capabilities. This data should be used as a guide for product selection only.

**Important Notice to Purchaser:** Our recommendations, if any, for use of this product are based on tests believed to be reliable. The greatest care is exercised in the selection of our materials and in our manufacturing operations. However, we make no recommendation to use this product in any manner which conflicts with existing laws and/or patents and WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS PRODUCT OR ITS USE, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, THE MANUFACTURER IS NOT LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND. Revised 07/15/08.

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