

Covinax 377-00

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

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: 5.3 - 6.3

Weight Per Gallon: 8.60

Shelf Life: 6 months

Freeze/Thaw Stability: Unstable

Glass Transition Temperature (T_g): (DSC): -37.1 °C



PERFORMANCE PROPERTIES

A 1 mil (28g/m²) 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 ¹ (lbs)	1.6	1.3 - 1.8
178° Shear Adhesion ² (minutes)	232	145 minimum
Loop Tack ³ (lbs)	N/A	No Specification

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

¹Franklin International 03QC5002, 30 minute dwell.

²Franklin International 03QC5003, 0.25 square inch, 1000 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	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 ²) (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

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