

Covinax 462-00

Covinax 462-00 is a styrene-acrylic copolymer for pressure sensitive applications requiring very high blush and water resistance. It is useful in clear film applications in which hazing or blushing of the adhesive-coated film is objectionable.

PHYSICAL PROPERTIES

Polymer Type: Styrene-acrylic

Protective System: Anionic

Color: White

Viscosity (cps): 9000 - 5000 (RVF Spindle #3/20 RPM /77°F)

Percent Solids: 45.0% - 50.0%

pH: 5.8 - 6.8

Weight Per Gallon: 8.4

Shelf Life: 3 Months

Freeze/Thaw Stability: Unstable

Glass Transition Temperature (T_g): DSC): -28.4°C



PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 462-00 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)	2.5	1.7 minimum
178° Shear Adhesion ² (minutes)	987	76 minimum
Loop Tack ³ (lbs)	1.8	0.8 minimum

FDA Compliance: None

¹Franklin International 03QC5002, 30 minute dwell

²Franklin International 03QC5003, 0.25 square inch, 500 gram load

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	0.10 A	0.29 A	3.2 A	0.15 A/L	0.31 A	0.50 A/L	2.1 A	0.79 FP
90° peel (lb/lineal inch width) 30 minute dwell	0.14 Z	0.30 Z	1.3 PT	0.08 Z	0.28 Z	0.54 Z	2.4 T	0.69 FP
Loop Tack (lb)	0.30	0.49	1.7	0.20	0.39	0.89	0.84	0.09

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	5,000+	912 C	1,251 C
SAFT Testing (min/temp° C)	127 Min./155° C	79 Min./107° C	26 Min./54° C
Substrate: Stainless Steel		Coat weight: 1.0 mil (+/-0.1 mil)	

A = Adhesive C = Cohesive FP = Fiber pick L = Legging PT = Paper Tear Z = Zippy

ADDITIONAL INFORMATION

Yellowing (Colorimeter "b" value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
4.86	8.57	2.95	3.92

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