

Covinax 370-01

Packaging & Window Film Adhesive



Covinax 370-01 is a hydroxyethyl cellulose stabilized vinyl acrylic copolymer which was designed for a variety of packaging applications, including window gums, laminating, bonding to printed or lacquered board, or bonding most synthetic films including untreated polyethylene. It exhibits very aggressive tack after drying. The cellulosic colloid, which is the primary stabilizer in Covinax 370-01, imparts a thixotropic rheology to the wet polymer. It also improves the water resistance of the dry film. Covinax 370-01 can be coated successfully on roll coaters, or it can be extruded in beads. Covinax 370-01 is FDA compliant under 21CFR 175.105.

PHYSICAL PROPERTIES

Polymer Type: Vinyl Modified Acrylic Copolymer

Protective System: Hydroxyethyl cellulose

Color: Off-white

Viscosity (cps): 2000 - 3000 (LVF, Spindle #4/60 RPM /77° F)

Percent Solids (%): 51.0 - 53.0

pH: 4.0 - 5.0

Weight Per Gallon: 8.6

Glass Transition Temperature (T_g): (DSC): -36.6°C

PERFORMANCE PROPERTIES

A 1 mil (28g/m²) dry film of Covinax 370-01 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
180° Peel Adhesion ¹ (lb)	3.2
178° Shear Adhesion ² (minutes)	21
Loop Tack ³ (lb)	2.3

Minimum Application Temperature: >32°F

Service (Use) Temperature: 20°F to 250°F

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 T_g and typical performance properties of the adhesive.

FDA Compliance: 21CFR 175.105

¹Franklin International 03QC5002, 30 minute dwell.

²Franklin International 03QC5003, 0.25 square inch, 500 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	7.7 C	3.2 A	8.0 C	6.3 C/PT	5.8 C	2.6 C/FT	6.1 FT	5.3 C
90° peel (lb/lineal inch width) 30 minute dwell	2.2 Z	1.5 A	8.8 L/PT	3.7 A	1.5 Z/A	0.88 A	8.8 C/FT	3.0 Z/A
Loop Tack (lb)	3.2	3.1	7.9	2.7	1.9	2.6	6.3	1.6

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	33 C	50 C	
SAFT Testing (min/temp °C)	39 min/64° C	35 min/59° C	35 min/60° C
Substrate: Stainless Steel Coat weight: 1.0 mil (+/-0.1 mil)			

A = Adhesive C = Cohesive FT = Film Tear 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
3.52	7.00	5.36	5.92

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.

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