

Covinax 525-08

High Tack General Purpose Permanent

Covinax 525-08 is a coater-ready, surfactant stabilized, tackified vinyl acrylic adhesive developed for high performance permanent pressure sensitive applications. It has an excellent balance of peel adhesion and shear adhesion. Covinax 525-08 is internally crosslinked, giving it superior cohesive strength. It will resist cold flow and will die cut and convert well, giving dry edges to finished sheets and rolls. This product was designed to be transfer coatable on slot die coaters. Covinax 525-08 is FDA compliant under 21CFR 175.105, 16CFR 1500.3(C)(4) and 16CFR 1500.(C)(2)(i).



PHYSICAL PROPERTIES

Polymer Type: Vinyl Modified Acrylic Copolymer

Protective System: Anionic

Color: Off white

Viscosity (cps): 4000 - 5800 (RVF, Spindle #3/10RPM/77°F)

Percent Solids (%): 55.0 - 59.0

pH: 5.0 - 6.0

Weight Per Gallon: 8.6

Glass Transition Temperature (T_g):(DSC): -24.5° C

PERFORMANCE PROPERTIES

A 1 mil (28g/m²) dry film of Covinax 525-08 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 (lb)	3.2	2.8 minimum
178° Shear Adhesion ² (minutes)	525	350 minimum
Loop Tack ³ (lb)	4.5	2.3 minimum
Minimum Application Temperature:	>32°F	N/A
Service (Use) Temperature:	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 T_g and typical performance properties of the adhesive.

FDA Compliance: 21 CFR 175.105
16 CFR 1500.3(C)(4)
16 CFR 1500.3(C)(2)(i)

¹Franklin International 03QC5002, 30 minute dwell.

²Franklin International 03QC5003, 0.25 square inch, 500 gram load, 30 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	3.5 A	3.0 A	1.4 PT	1.9 FP	2.2 A	1.7 A	3.6 A	1.4 PT
90° peel (lb/lineal inch width) 30 minute dwell	1.4 PT	1.7 A	1.5 PT	1.2 FP	2.0 A	1.5 A	3.5 A	1.2 PT
Loop Tack (lb)	2.0	2.9	3.9	2.7	1.1	0.98	2.6	1.3

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	508 C	675 C	525 C
SAFT Testing (min/temp° C)	63/89° C	55/80° C	63/94° C
Substrate: Stainless Steel Coat weight: 1.0 mil (+/-0.1 mil)			

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

ADDITIONAL INFORMATION

Yellowing (Colorimeter “b” value)

UV Exposure (1 week) Mylar		Heat Exposure (1 week @ 140° F) Paper	
Before	After	Before	After
5.38	12.90	1.07	15.13

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.

IMPORTANT NOTICE TO CUSTOMER:

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