

Covinax 383-19

Tackified High Performance PSA

Covinax 383-19 is a coater-ready, surfactant stabilized vinyl acrylic copolymer adhesive developed for high performance permanent pressure sensitive applications. Covinax 383-19 is the highest performing water-based PSA in our line and is often used as a durable label adhesive. Covinax 383-19 conforms to BS 5609: 1986 Section 2 - 'Marine and Laboratory Performance of Label Base Materials' when coated on suitable face sheet. It maintains a strong bond over a wide range of temperatures and extreme conditions and is recommended where environmental ruggedness is required. It has an excellent balance of peel and shear and works very well on many surfaces, especially corrugate box, stainless steel, and most polymeric surfaces. It will resist cold flow and will die cut and convert well, giving dry edges to finished sheets and rolls.



PHYSICAL PROPERTIES

Polymer Type: Vinyl Modified Acrylic Copolymer

Protective System: Anionic

Color: White

Viscosity (cps): 350 - 750 (RVF, Spindle #3/20 RPM/77° F)

Percent Solids (%): 56.5 - 59.5

pH: 5.0 - 7.0

Weight Per Gallon: 8.6

Glass Transition Temperature (Tg): (DSC): -15.5° C

PERFORMANCE PROPERTIES

A 1 mil (28g/m²) dry film of Covinax 383-19 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)	5.0	3.5 minimum
178° Shear Adhesion ² (minutes)	98	40 minimum
Loop Tack ³ (lb)	3.9	2.0 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 Tg and typical performance properties of the adhesive.

FDA Compliance: None

BS 5609: 1986 Section 2: Passes (Report 14-124291/a)

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	PT	PT	PT	PT	2.2 A	2.5 A	4.8 A	PT
90° peel (lb/lineal inch width) 30 minute dwell	1.3 A	1.5 A	PT	0.61 FP	1.1 A	1.3 A	5.3 T	0.83 FP
Loop Tack (lb)	1.5	2.9	2.7	1.4	1.3	2.2	2.4	1.6

	Facestock: Paper	Facestock: BOPP Film	Facestock: Mylar
178° Shear (500 g, 0.25 in ²) (minutes)	60 C	44 C	98 C
SAFT Testing (min/temp° C)	74.4/97.4° C	24.1/63.1° C	45.8/68.8° 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
5.21	7.16	4.12	4.98

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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