



Covinax 379-00

PRODUCT DESCRIPTION

Covinax 379-00 is a surfactant stabilized acrylic copolymer, developed for use as a permanent pressure sensitive adhesive. It has found use primarily in pharmaceutical labeling applications requiring adhesion to curved or irregularly shaped surfaces. It has an excellent balance of peel and shear strength, which allows it to be converted into rolls or sheets without sticky edge problems. It has excellent wing-up resistance and its clarity affords use in formulations for overlaminating.

Covinax 379-00 is FDA compliant under 21CFR 175.105 and 21CFR 176.180.

PHYSICAL PROPERTIES

| | | | |
|---|--------------------------------------|-------------------------------|----------|
| Polymer Type: | Acrylic | Freeze/Thaw Stability: | Unstable |
| Protective System: | Anionic | Weight Per Gallon: | 8.5 |
| Viscosity (cps): | 50-350 (LVF, Spindle #2/60 RPM/77°F) | Color: | White |
| Percent Solids: | 63.0 – 65.0 | Shelf Life: | 6 months |
| pH: | 4.20 – 5.20 | | |
| Glass Transition Temperature (T_g): (DSC): | -41.0°C | | |
| | (DMA): -23.5°C | | |

PERFORMANCE PROPERTIES

A 1 mil (28g/M²) dry film of Covinax 379-00 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) | 2.70 | 2.00 minimum |
| 178° Shear Adhesion ² (minutes) | 249 | 80 minimum |
| Loop Tack ³ (lbs) | 2.60 | 1.50 minimum |

FDA Compliance: 21CFR 175.105
21CFR 176.180

1 Franklin International 03QC5002, 30 minute dwell.

2 Franklin International 03QC5003, 0.25 square inch, 500 gram load, 10 minute dwell.

3 Franklin International 03QC5004, 1 square inch contact, 1 second dwell.

**Covinax 379-00****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 | 1.001A | 0.890A | 2.461PT | 3.049FP | 0.661A | 0.910A | 4.600C | 1.87PT |
| 90° peel (lb/lineal inch width) 30 minute dwell | 0.844A | 0.643A | 0.649PT | 1.713PT | 0.865A | 0.711A | 4.818 TZ | 1.352A |
| Loop Tack (lb) | 0.93 | 1.45 | 4.49 | 2.37 | 1.11 | 1.45 | 2.80 | 5.57 |

| | Facestock: Paper | Facestock: BOPP Film | Facestock: Mylar |
|---|---------------------|-----------------------------------|---------------------|
| 178° Shear (500 g, 0.25 in ²) (minutes) | 211C | 246C | 249C |
| SAFT Testing (min/temp° C) | 143/125° C | 84/80° C | 81/84° C |
| Substrate: Stainless Steel | | Coat weight: 1.0 mil (+/-0.1 mil) | |

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

ADDITIONAL INFORMATION**Yellowing** (Colorimeter "b" value)

| UV Exposure (1 week) Mylar | | Heat Exposure (1 week @ 140° F) Paper | |
|----------------------------------|-------|---|-------|
| Before | After | Before | After |
| 0.16 | 3.11 | -1.56 | 1.65 |

The data provided in this Product Data Sheet represents typical physical and/or performance values for the product under a given set of testing conditions. The ranges or values are not specifications. Specifications are set based on statistical analysis of measurements made by the quality control laboratory on production material and will accurately reflect production capabilities. This data should be used as a guide for product selection only.

Important Notice to Purchaser: Our recommendations, if any, for use of this product are based on tests believed to be reliable. The greatest care is exercised in the selection of our materials and in our manufacturing operations. However, we make no recommendation to use this product in any manner which conflicts with existing laws and/or patents and WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS PRODUCT OR ITS USE, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, THE MANUFACTURER IS NOT LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND. Revised 07/15/08.

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