

# COVINAX SMA-02 DEV

**COVINAX SMA-02 DEV** is a surfactant stabilized vinyl acrylic copolymer emulsion developed for aggressive removable applications requiring cold temperature or freezer grade performance. It is well suited for shelf edge applications on various face stocks including vinyl. Covinax SMA-02 DEV has a high degree of carboxyl functionality and will accept crosslinker to enhance cohesive shear strength. It will resist cold flow and die cut and convert well, giving dry edges to finished sheets and rolls.

## PHYSICAL PROPERTIES

**Polymer Type:** Vinyl Acrylic

**Protective System:** Anionic/Nonionic

**Color:** White

**Viscosity (cps):** 250 - 550 (RVF, Spindle #3/100 RPM /77 °F)

**Solids(%):** 44.5 - 56.5

**pH:** 4.5 - 6.5

**Weight Per Gallon:** 8.60

**Shelf Life:** 3 months

**Freeze/Thaw Stability:** Unstable

**Glass Transition Temperature (T<sub>g</sub>): (DSC):** -58.5 °C



## PERFORMANCE PROPERTIES

A 1 mil (28g/m<sup>2</sup>) dry film of COVINAX SMA-02 DEV 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 <sup>1</sup> (lbs)	1.0	0.80
178° Shear Adhesion <sup>2</sup> (minutes)	150	38
Loop Tack <sup>3</sup> (lbs)	1.4	0.80

**FDA Compliance:** 21CFR 175.105  
21CFR 176.180

<sup>1</sup>Franklin International 03QC5002, 30 minute dwell

<sup>2</sup>Franklin International 03QC5003, 0.25 square inch, 500 gram load

<sup>3</sup>Franklin International 03QC5004, 1 square inch contact, 1 second dwell

### IMPORTANT NOTICE TO CUSTOMER:

The recommendations and data contained in this Product Data Sheet for use of this product are based on information Franklin believes to be reliable. They are offered in good faith without guarantee, as conditions and methods of use of our product by Customer are beyond Franklin's control. Customer must determine the suitability of the product for a particular application before adopting it on a commercial scale.

All orders for Franklin products shall be subject to Franklin International, Inc.'s Standard Terms and Conditions of Sale which may be found at [http://www.franklin.com/Terms\\_and\\_Conditions.aspx](http://www.franklin.com/Terms_and_Conditions.aspx) ("Standard Terms"). Different or additional terms proposed by Customer are expressly rejected and shall not become part of the agreement between Customer and Franklin International, Inc. with respect to any order. Contact Franklin International, Inc. immediately if you cannot access our Standard Terms and we will provide you a copy upon request. Any sale of products by Franklin to Customer is expressly conditional upon Customer's consent to the Standard Terms, and Customer's acceptance of any performance by, or receipt of products from, Franklin International, Inc. shall constitute Customer's acceptance of the Standard Terms and Conditions of Sale.

© Copyright 2015. All rights reserved. Franklin International. Revised 04/01/15.



Wood Adhesives  
Pressure Sensitive Adhesives  
Specialty Polymers

## Technical Information Sheet 81507

# Pressure Sensitive Adhesives Determining Developmental Products' Specification Ranges

This Technical Information Sheet reviews how specification ranges are created for new developmental adhesives and polymers (labeled as "DEV") from initial production through commercialization (removal from DEV status).

Franklin utilizes the *Stage Gate Process* for developing new polymers and adhesive formulations. Customer requirements are entered into the initial stage of the process. During the developmental process, lab and pilot samples are normally created and tested by Franklin technical personnel as well as by the customer for approval. These samples are labeled as experimental (EXP) batches.

In order for the EXP product to move to Franklin production, at least three replicated lab and/or pilot batches are made. From these batches, target ranges are calculated using 3 Sigma limits and are incorporated into Franklin's QC and Production System, creating a DEV product.

Once at least eight consecutive production batches are made without changes to the formulation or process, the product specifications are set based on these batches, the product is no longer developmental and the DEV designation is removed.

**In most cases, target ranges will change from initial production batches through the commercialization process. Often this results in a shift, and possibly a broadening, of the specification ranges. The customer is notified of these changes.**

TMH 11/27/12