

Micronax 400-30 DEV

Micronax 400-30 DEV is a REACH-compliant and APEO-free microsphere-based pressure-sensitive adhesive designed for transfer coatable applications, such as wall graphics. This adhesive offers moderate adhesion with excellent long-term clean removability on a wide range of substrates, including sensitive wallpapers and painted drywall. **Micronax 400-30 DEV** is engineered for versatility and can be applied using various coating methods, including slot die, direct and reverse gravure, Mayer rod, and knife-over-roll. **Micronax 400-30 DEV** features superior mechanical stability during processing and generates minimal foam, supporting a smooth and consistent coating operation. When used as intended, exposure to this product does not require a California Proposition 65 warning.

PHYSICAL PROPERTIES

Polymer Type: Acrylic Copolymer

Protective System: Surfactant Stabilized

Color: White

Viscosity (cps): 860 – 1600 (RVF, Spindle #3/20 RPM, 77°F)

Percent Solids: 44.0 – 46.5%

pH: 8.0 – 9.5

Freeze/Thaw Stability: Unstable

Density: 7.5

Shelf Life: 6 months

FDA Compliance: 21 CFR 175.105 on facestocks similar to polyester, paper, vinyl, and biaxially oriented polypropylene (BOPP)

PERFORMANCE PROPERTIES

A 0.5 mil (14g/m²) dry film of Micronax 400-30 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 | Target Range |
|----------------------------------------------|----------------|--------------|
| 180° Peel Adhesion ¹ (lb/in) | 0.45 | 1.1 maximum |
| Loop Tack ² (lb/in ²) | 0.25 | 0.54 maximum |

¹Franklin International 03QC5002, 30-minute dwell.

²Franklin International 03QC5004, 1 square inch contact, 1 second dwell.

STORAGE & HANDLING

This product must be agitated at a moderate speed (a small vortex should be observed) with the appropriate air mixer prior to use, as Micronax 400-30 DEV will separate upon sitting. Micronax 400-30 DEV **does not** need to be constantly agitated during production coating. Protect the product from freezing. If possible, protect the product from extreme heat (98°F or above), and for the best results, store below 85°F.

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:

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.franklini.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.

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*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 pilot batches are made. From these batches, target ranges are specified by the critical to quality parameters agreed upon by the Franklin International technical team and the customer. These values are incorporated into Franklin's QC and Production System, creating a DEV product.

At least eight consecutive production batches are made without changes to the polymer, formulation, or process. All eight batches must pass customer's evaluation and are determined to fit the desired application. The product specifications are set based on these batches with customer's agreement. At this stage, the product is no longer developmental, and the DEV designation is removed. The targeted specification may or may not change as per the statistical data from the production batches. These ranges are calculated using 3 Sigma limits at this stage and are incorporated into Franklin's QC and Production System.

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

ZS 01/04/2023