



# Modern Printing Colors

## UV MOD Poly

**UV MOD POLY INK** was formulated to print mainly on Polyethylene. Also formulated to meet the speeds of the modern printing presses, it cures at relatively low levels of ultraviolet energy, reducing the heating of the substrate and energy costs. This ink is for indoor and outdoor advertising banners. UV MOD POLY cures to a glossy and flexible finish. Modern Printing Colors' UV inks do not contain vinyl-2-pyrrolidone (V-Pyrol)

## Printer Information

- Substrates** Polyethylene, polypropylene and some coated papers and some cardstocks.  
**Mesh** Recommended 355-420 tpi monofilament polyester mesh for most applications.  
**Squeegee** 70-90 durometer polyurethane squeegee  
**Stencil** Solvent resistant, UV ink compatible direct emulsion.  
**Coverage** 2500-3500 square feet per gallon depending upon ink deposit.

## Printing Guidelines

UV MOD POLY is formulated to be press ready. All inks must be thoroughly mixed before going on press. For best print quality and cure performance maintain an ink temperature between 65 - 90 degrees F. Lower temperatures will cause an increase in viscosity, while higher temperatures will cause a decrease in viscosity both reducing print quality. Always pretest substrate prior to production run this will allow you to determine the best printing performance settings. Stray UV light which is present will affect the ink being stored if the containers have been opened. Keeping these containers covered at all times will reduce the effects of stray UV light from entering these containers along with preventing contamination from dirt and dust.

## Cure Parameters

UV MOD POLY cures when exposed to a medium pressure mercury vapor lamp set at 200 watts per inch with 80-110 mj. These settings should be considered a starting setup guide. Actual production cure parameters may be different.

NOTE: Curing can be affected by the substrate being used. The porosity of the substrate will determine the absorption rate of the ink, which will result in different curing setups for the same ink.

- Varnishes** Mixing clears are available for metallic.  
**Over Print** Over Print varnish are available. O.P varnishes provide added surface protection and to extend the durability.  
**Additives** Reducer, Flattening Powders and Adhesion Promoters are available upon request.

**Product Colors** We offer a full color blending line along with Fluorescent and Metallics. All line colors have excellent opacity and flow characteristics.

**Ink Handling / Storage** Containers should be tightly covered and stored at temperatures between 65-90 degrees F. All inks taken from the press should be stored separately to avoid contaminating unused ink. Avoid direct skin contact. If ink comes in contact with skin wipe off with a clean, dry cloth (never use solvent or reducer as a cleaning agent on your skin). Wash affected area thoroughly with soap and water

1951 W. 21st Street, Broadview, IL 60155 | Tel: 888/439-5678 | Fax: 708/681-5679  
E-mail: [modern@moderncolors.com](mailto:modern@moderncolors.com) | [www.moderncolors.com](http://www.moderncolors.com)

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