



## DYNACOLOR™ DATA SHEET

### PHOTOCHROMIC FLEXOGRAPHIC INK

#### DESCRIPTION

**DYNACOLOR™** photochromic solvent-based flexo inks are clear when not exposed to UV radiation, and gain color as they are exposed to UV light. These inks are available in various colors. The color change is "reversible," i.e., the color will fade again upon removal from UV exposure. **DYNACOLOR™** flexographic ink is ideal for document and product security, promotional items, direct mail pieces, games, novelties, etc. See Color Availability Chart for a complete list of available colors.

#### TYPICAL PROPERTIES

Viscosity (at 25° C, #2 Zahn Cup)	22-28 sec
Density (Approx.)	8.5 lb./gal
Appearance	Thin, Translucent Liquid
Percent Solids (Approx.)	24%
Percent Volatiles (Approx.)	N/D
Food Contact Compliance Status	N/D
Yield Range (Approx.)	10,000-75,000 in <sup>2</sup> /lb. (depending on film thickness)
Recommended Substrates	Paper, Film

#### STORAGE AND HANDLING

Store in a cool, dry place, out of direct exposure to UV and fluorescent light. The material is solvent-based and flammable, and should not be used near open flame. Store Below 90° F. Must be used within three months of purchase. Storage longer than six months not recommended. Consult product MSDS prior to use.

#### SPECIAL CARE INSTRUCTIONS

**DYNACOLOR™** photochromic flexographic ink changes color with changes in light intensity. The ink is solvent-based. The following suggestions should be kept in mind when running the ink.

- Do not add anything to the ink, other than approved solvents. You may add up to 10% CTI solvent (thinner) to the ink to thin it, but nothing else. If the ink is too thin, you will have to request a special formulation to bring up the viscosity.
- Use a low anilox. You will get better color intensity by running the ink heavy. We recommend 150 or 200, but you will get reasonable results with a 360. The anilox you use may largely depend on the requirements of the customer.
- Clean-up: Use CTI solvent (thinner) as a cleaning solvent. Use solvent-resistant gloves while using this solvent.
- Paper: The ink will print on coated or uncoated stock. You may want to avoid papers with excessively low or high pH, if longevity is a concern.
- Drying: Use IR dryers on a low setting, or air dry. Do not run the web through a UV curing lamp. This will damage the color-changing properties of the ink.

For further information or assistance, please contact Chromatic Technologies, Inc. at (888) 294-4CTI.

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