



## Temprosafe™ Solvent Surface Ink

### artience Co., Ltd.

1225 N. Michael Drive  
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Tel: 630-930-5100.  
[www.artience.com](http://www.artience.com)

## Product Overview

Temprosafe is a solvent-based, printing ink system formulated for high speed, clean printing of line, fine type and screen applications. Temprosafe inks were formulated for excellent adhesion, gloss and heat resistance on a wide variety of substrates for moderate to high heat applications. This system was formulated utilizing the latest in resin and pigment technology.

## Technical Data

- **Substrates:**
  - Treated polypropylene and polyethylene
  - Treated polyester, including chemically treated
  - PVdC coated polyester and polypropylene
  - Treated and coated nylon
- **Solvent Reducer Recommendations:**
  - Normal Blend: 90% normal propyl alcohol/10% normal propyl acetate
  - Fast Blend: 90/10 ethyl alcohol/n-propyl acetate
  - Slow Blend: Add glycol ether PnP/PM acetate blend, ADD-X1003
  - Run the fastest combination consistent with clean printing to assure low solvent retention levels and non-blocking properties.
- **Plate Material:** Photopolymer or natural rubber
- **Ink Storage:** 50°F to 100°F in provided containers, out of direct sunlight
- **Anilox:** Line: 200 to 500 ls, Process: 600 to 900 ls
- **Minimum Web Temperature:** 120°F with adequate exhaust for polyolefins, 165°F with adequate exhaust for polyesters and nylon
- **Recommended Printing Viscosity:** 22 to 28 #2 Zahn cup
- **Blend Ratio:** 60 Toyo Ink *CORE* Base, 40% Temprosafe vehicle
  - Process inks are available pre-blended.
- **Cautions:**
  - As with all inks, specific films should be tested before a production run.
  - All heat resistant applications on specific substrates should be tested by the customer and reviewed by a Toyo representative prior to press run.

## Physical Characteristics

- Good adhesion to a wide range of film substrates
- Nitrocellulose base blendable for optimum color control
- Excellent color strength and stability
- Excellent resolubility allows for clean running.
- Excellent gloss
- Excellent block resistance
- Designed for high press speeds
- HAPs & PFAs free
- Good heat resistance
- Good rub and scratch resistance
- Ice water crinkle resistant
- Good water resistance



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## Colors Available

Temprosafe inks are formulated to have a maximum pigment load while maintaining a low consistent viscosity. Temprosafe is available in standard, bleed resistant, permanent and high-performance pigments. Pantone® approved bases and mixes are available from several locations. Color computer-controlled bases, matched to any standard, are available for customers with dispensers already in place and wish to avoid changing their database. Temprosafe can be shipped to DE specifications to meet the most stringent customer demands. Due to the high pigment strength of the system, an extender addition to the ink may be required.

For technical assistance, call 1-979-778-1538.

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