

PYROTECH™

Solvent Heat Resistant Ink

Product Overview

PYROTECH™ Series inks are formulated for excellent adhesion, gloss and heat resistance. They are compatible on a wide variety of substrates and are ideal for applications requiring high heat resistance and high heat seal conditions. This system offers excellent chemical resistance as well.

Technical Data

- **Substrates:** PYROTECH™ Series exhibits excellent film versatility on treated, coated and metalized polypropylene and polyester, polyethylene and paper (coated and uncoated).
- **Solvent Reducer Recommendations:**
 - Normal: 85/15 n-propyl alcohol/n-propyl acetate
 - Fast: 85/15 ethanol/n-propyl acetate
 - Slow: 80/10/10 n-propyl alcohol/n-propyl acetate/slow glycol ether
 - Run the fastest combination consistent with clean printing to assure low solvent retention levels and non-blocking properties.
- **Minimum Web Temperature:**
 - PVdC coated and polyester films should be 160-170°F; 130-150°F is required for most other films.
- **Plate Material:** Photopolymer or natural rubber.
- **Ink Storage:** 50°F to 100°F in provided containers, out of direct sunlight.
- **Anilox:** Line: 200 to 400 ls, Process: Available for 400 to 1,400 ls aniloxes.
 - We recommend PYROTECH™ inks for the best, heat-resistant process work
- **Blend Ratio:** 60% Toyo Ink Core™ nitrocellulose base with 40% PYROTECH™ Series vehicle.
- **Recommended Printing Viscosity:** Line: 18" to 25" #2 Zahn cup, Process: 25" to 32" #2 Zahn cup

Cautions: All PYROTECH™ Series heat-resistant applications on specific substrates should be tested by the customer and reviewed by a Toyo Ink lab prior to press run.

Physical Characteristics

- Superior heat resistance up to 500°F in lab controlled conditions
- High gloss
- Excellent block resistance
- Excellent adhesion and flexibility on most substrates
- Excellent resolubility allows for clean running of fine type and screen applications
- Nitrocellulose base blendable
- Good rub and scratch resistance
- Good water resistance
- HAPs & PFAs free

Colors Available

PYROTECH™ Series ink is formulated to have a maximum pigment load while maintaining a low consistent viscosity. It is available in standard, bleed-resistant and permanent pigments. PANTONE® approved bases and mixes are available from several locations. Color computer-controlled bases, matched to any standard, are available for customers who have dispensers already in place and wish to avoid changing the database. Inks can be supplied to DE specifications to meet the most stringent customer demands. Due to the high pigment strength of the system, it may require an extender addition to the ink.



Toyo Ink America. LLC
An artience group company

1225 N. Michael Drive
Wood Dale, IL 60191 USA
Tel: 630-930-5100
www.artience-toyoinkamerica.com

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

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