

Fast Drying High Gloss Ink for Vinyl and Plastics

Features

- High-Gloss Finish
- Safe, Low Temperature, Jet Drying
- Excellent Screen Stability and Self-Solvency
- Wide Adhesion Range
- Good Gasoline Resistance and Flexibility

Substrate Application

Media Type
Pressure Sensitive Vinyls
Flexible and Rigid PVC Products
Polycarbonates
Acrylics
ABS
Most Top-Coated or Print-treated Polyesters

Thinning

Stir well before every use. Polyplast should be thinned 15% to 25% with PY-TH Thinner. For hot shop conditions or slow printing applications, use PY-RT Retarder.

Mesh

Polyplast prints well through 230 to 305 (90 to 120/cm) monofilament polyester fabrics.

Stencils

Stencil materials must be solvent resistant. Solvent-adhered stencil films should not be used with Polyplast.

Drying

Polyplast will jet dry at 130°F to 150°F (55°C to 65°C) in 15 to 20 seconds. Overprints may require additional dwell time. Polyplast requires 8 to 15 minutes to air dry.

Coverage

Standard line colors should yield 1,800 to 2,400 square feet/gallon (45 to 57 m²/liter) depending on film thickness.

Wash Up

Wash up on press with press washes and after the production run with ink degradants.

Pre-Production Tests

It is strongly recommended that all substrates be tested before use as supposedly similar substrates can vary between manufacturers and even between different batches from the same manufacturer.

Certain plastics may be impregnated with lubricants that, like plasticizer migration, may impair adhesion and block resistance, even a considerable period after printing. Other plastics can become brittle or caused to curl after printing.

END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION.

Double-Sided Decals

Polyplast inks may be used for the production of double-sided decals. However, due to the complex nature of this type of work, printers must satisfy themselves before starting a production run that the substrate and the production method to be used are compatible with the ink.

Outdoor Use

Accelerated weathering tests indicate that an exterior life of approximately three years may be expected in a temperate climate. The gloss retention of Polyplast colors may be enhanced by overprinting with PY-OP Overprint Clear.

Application and Premask Tape Acceptance

Polyplast colors and Overprint Clears exhibit excellent acceptance of application tape(s). It is essential that inks and Overprint Clears are thoroughly dry before application of premask tapes. Call Technical Service for premask recommendation.

Vacuum Forming

Polyplast inks allow trouble-free, deep-draw vacuum forming without mold staining on PVC, ABS, CAB, and acrylics.

POLYPLAST

Co-Use With Other Inks

Polyplast may be printed over dry ink films of Plastijet XG, or Tech Mark may be printed over dry ink films of Polyplast. Polyplast may be mixed in any proportion with Plastijet XG and Tech Mark.

The print and drying performance of the mixed ink will depend on the ink used with Polyplast and the proportions of the mix.

Color Availability

The Polyplast color range includes 11 standard printing colors as well as nine Seritone Matching System (SMS) colors.

The Seritone Matching System

The Seritone Matching System has been designed to enable printers to readily match PANTONE®* and most other colors in-house. The system consists of nine SMS base colors, each of which has been selected for its cleanliness of tone and suitability for intermixing. Using the SMS base colors plus Shading Black, Tinting White, and Mixing Clear, almost any color can be produced.

Special Matches

Special colors can be supplied against prints, wet ink, PANTONE®* numbers, or other Nazdar standard colors.

*Pantone, Inc's check-standard trademark for reproduction and color reproduction.

Metallic Powders

Polyplast Mixing Clear is recommended for use with metallic powders. Suggested ratios of powder and Mixing Clear are 8% by weight of silver powder and 20% by weight of gold powder. It is recommended that fresh metallics be mixed daily to prevent color shift of the finished mix.

Safety and Handling

Refer to MSDS for safety, handling, and waste disposal information.

Standard Colors

PY-110	Lemon Yellow
PY-120	Medium Yellow
PY-140	Fire Red
PY-155	Rubine Red
PY-180	Warm Red
PY-190	Process Blue
PY-205	Reflex Blue
PY-210	Ultra Blue
PY-220	Emerald Green
PY-301	Opaque Black
PY-311	Opaque White
PY-OP	Overprint Clear

Seritone Matching System Colors

PY-064	SMS Yellow GS (Green Shade)
PY-066	SMS Yellow RS (Red Shade)
PY-114	SMS Orange
PY-121	SMS Red YS (Yellow Shade)
PY-127	SMS Violet
PY-164	SMS Red BS (Blue Shade)
PY-165	SMS Magenta
PY-230	SMS Blue
PY-325	SMS Green
PY-SB	SMS Shading Black
PY-TW	SMS Tinting White
PY-MX	Mixing Clear

Thinners/Retarders

PY-TH	Thinner
PY-RT	Retarder

Storage

Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the screen should be disposed of. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.

In the interest of maximum shelf life, storage temperatures should be between 50°F (10°C) and 77°F (25°C). When stored under these conditions the maximum shelf life is shown by the use by dates, which are clearly marked on all ink containers.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

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