

# GLOSS VINYL

Fast Drying High Gloss Ink for Vinyl and Plastics

## Features

- ▶ High-Gloss Finish
- ▶ Safe, Low Temperature, Jet Drying
- ▶ Good Screen Stability and Self-Solvency
- ▶ Wide Adhesion Range
- ▶ Excellent Flexibility
- ▶ Vacuum Formable
- ▶ Pad Printable

## Substrate Application

Flexible and Rigid PVC Products

Pressure-Sensitive Vinyls

Polycarbonates

Acrylics

ABS

Most Top-Coated or Print-treated Polyesters

Polystyrene

P.E.T.

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## Thinning

Stir well before every use. Gloss Vinyl should be thinned 15% to 25% with GVYL-960 Thinner. For hot shop conditions or slow printing applications, use GVYL-980 Retarder. Special solvents are available if "fish eyes" or cratering occur due to surface contamination.

## Mesh

Gloss Vinyl prints well through 196 to 305 (77 to 120/cm) monofilament polyester fabrics.

## Stencils

Stencil materials must be solvent resistant. Dirasol 911, SuperCoat 915, and SuperCoat 916 dual cure, or, Dirasol 132 one pot direct emulsions are recommended to give the highest print quality and stencil durability. Solvent-adhered stencil films should not be used with Gloss Vinyl.

## Drying

Gloss Vinyl will jet dry at 130°F to 150°F (55°C to 65°C) in 30 to 45 seconds. Overprints may require additional dwell time. Gloss Vinyl requires 15 to 20 minutes to air dry.

## Coverage

Standard line colors should yield 1600 to 1800 square feet/gallon (37 to 41 m<sup>2</sup>/liter) when thinned 25% and printed through 305 (120/cm) monofilament polyester fabrics.

## Wash Up

Wash up on press with Xtend™ press washes and after the production run with Xtend™ ink degradents.

## Pre-Production Test

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 which, 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.**

## Use of Laminating/Contact Adhesives

Using this ink on top-coated and print-treated polyesters in conjunction with laminating and contact adhesives (such as 3M's 467/468 series) is not recommended. It is strongly recommended that all jobs which require the use of contact or laminating adhesives be thoroughly tested prior to mass production.

The recommended testing of this ink if it is used with laminating adhesives is to apply the finished part (complete with the laminating adhesive\_ to an aluminum panel. Wait 24 hours then peel the part from the piece of aluminum. Check for any loss of ink adhesion (ink delamination).

## Double-Sided Decals

Gloss Vinyl 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 Gloss Vinyl colors may be enhanced by overprinting with TMI-1000 Overprint Clear.

## Application and Premask Tape Acceptance

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

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## Vacuum Forming

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

## Color Availability

The Gloss Vinyl color range includes standard printing colors as well as matching system colors.

## Metallics

GVYL-901 Mixing Vehicle is recommended for use with metallic powders. Suggested ratios of powder and Mixing Vehicle are 12% by weight of silver powder and 22% by weight of gold powder. It is recommended that fresh metallics be mixed daily to prevent color shift of the finished mix.

## Special Matches

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

## Standard Colors

GVYL-150	Primrose Yellow	K-90045
GVYL-152	Medium Yellow	K-90047
GVYL-251	Brilliant Orange	K-90991
GVYL-350	Fire Red	K-90050
GVYL-351	Bright Red	K-90049
GVYL-450	Emerald Green	K-90062
GVYL-501	Light Blue	K-80211
GVYL-504	Ultra Blue	K-80539
GVYL-700	Black	K-80207
GVYL-701	H. Hide Black	K-82249
GVYL-800	White	K-80208
GVYL-801	Opaque White	K-80540
GVYL-802	Super Opaque White	K-80909
GVYL-901	Mixing Vehicle	K-80214
TMI-1000	Overprint Clear	K-77747

## Seritone Matching System Colors

GVYL-010	GS Yellow	K-83398
GVYL-014	RS Yellow	K-83399
GVYL-020	Orange	K-92070
GVYL-030	YS Red	K-82239
GVYL-031	BS Red	K-82238
GVYL-033	Quindo YS Red	K-80587
GVYL-034	Quindo BS Red	K-80588
GVYL-035	Magenta	K-82240
GVYL-039	Violet	K-82242
GVYL-040	BS Green	K-82237
GVYL-041	YS Green	K-82236
GVYL-050	GS Blue	K-82235
GVYL-052	RS Blue	K-82234
GVYL-070	Tinting Black	K-81131

## Thinners/Retarders

GVYL-950	Fast Thinner	K-80235 or K-85396*
GVYL-960	Thinner	K-14003 or K-81124*
GVYL-970	Slow Thinner	K-80236 or K-81123*
GVYL-980	Retarder	K-80237

\*Special solvents to be used if cratering or "fish eyes" occur due to surface contamination. These special solvents should not be used when printing on oriented styrene.

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## 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.

## Safety and Handling

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

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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