

Uvijet

Uvijet Graphium™ RA

Uvijet Graphium RA is a range of inks that has been optimized for printing labels and self-adhesive decals on the FFEI Graphium inkjet printer.

PRINT CHARACTERISTICS

Uvijet Graphium RA inks are designed to combine high quality image formation and long run reliability with adhesion, resistance and durability.

CURING

Adhesion is normally attained immediately upon curing; however, maximum adhesion, chemical, scuff and mar resistance will be obtained up to 24 hours after initial curing.

UVIJET GRAPHIUM RA025 WHITE

Uvijet Graphium RA025 white is a high opacity white that is designed as both a backing white for use on clear substrates and for printing white images.

UVIJET GRAPHIUM COLOR RANGE

Available in 11 lb. (5kg) packs.

QV017 is available in 5ltr containers.

RESISTANCE TESTS

Soap Resistance: ISO2836:1999(E)	Oil Resistance: ISO2836:1999(E)
Solvent Resistance: ISO2837:1996	Acid Resistance: ISO11628:1995
Alkali Resistance: ISO2836:1999(E)	Alcohol Resistance: ISO2836:1999(E)

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Uvijet Graphium™ RA – UV Curing Inkjet Ink Features

Color Ref	Code	Soap	Oil	Alkali	Acid	Alcohol	Typical Blue Wool Rating
Yellow	RA052	+	+	+	+	+	6-7
Magenta	RA867	+	+	+	+	+	7-8
Cyan	RA215	+	+	+	+	+	8
Black	RA004	+	+	+	+	+	8
White	RA025	+	+	+	+	+	8
Flush	QV017						

Resistance Scale: + = Pass, - = Fail

Blue Wool Rating 8 = Excellent, 1 = Poor

*Graphium™ is a trademark of FFEI Ltd.

PRE-PRODUCTION TESTS

Uvijet Graphium RA is formulated to adhere to most grades of top coated or coronatreated filmic materials with surface tension levels of 45 dyne/cm or higher. However, it is strongly recommended that all substrates and blocking foils are tested before use on a commercial run. Supposedly similar substrates can vary between manufacturers, and between batches from the same manufacturer. Certain plastics may be impregnated with lubricants that, like plasticizer migration, may impair adhesion and block resistance.

It is also recommended to thoroughly test for compatibility when overprinted, as ribbons, toners and pigments used by overprint technologies can vary from batch to batch.

The end-user must determine suitability of this product for the intended use prior to production.

CHEMICAL AND ABRASION RESISTANCE

Uvijet Graphium RA has excellent abrasion resistance and is resistant to most common chemicals.

LIGHT FASTNESS

The light fastness of the pigments quoted in this Product Information sheet is based on pigment manufacturers' recommendations and refers to the Blue Wool Scale. Light fastness of an ink is dependent on the quantity of pigment in the ink and the thickness of the ink film. It is possible that light fastness using thin film deposits or fine drops may be lower than the value quoted.

STORAGE

Uvijet Graphium RA ink should not be stored in direct sunlight or near heat sources and should be kept away from peroxides. For optimum shelf-life, products should be stored at moderate temperatures between 41°F and 86°F.

When stored in a cool environment the inks are expected to have a shelf-life of 12 months from date of manufacture.

FUJIFILM SPECIALTY INK SYSTEMS

LIMITED:

- Has certification to the International Environmental Standard ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Research and development team, work to an in house Health Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor its impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

SAFETY AND HANDLING

Uvijet Graphium RA Inks:

- Have a flash point greater than 55oC and are therefore not classified as 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Uvijet inks is given in the appropriate Safety Data Sheets.

ENVIRONMENTAL INFORMATION

Uvijet Graphium RA:

- Does not contain ozone-depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons.
- Is free from any volatile solvent and can therefore be considered to have less impact on the environment when compared to solvent-based products.

Uvijet Graphium™ RA UV Curing Inkjet Ink Features

- Adhesion to a wide range of substrates including most grades of top coated PE, top coated PP, PVC and paper.
- Designed for a wide range of applications including labels and self-adhesive decals.
- High strength pigmentation with wide color gamut.
- High opacity white for background printing and fine detail.
- Resistant to curl on edge bleed labels.
- Compatible with typical finishing processes including die cutting, foil blocking and embossing.
- Resistant to a range of typical household chemicals.
- Supplied in 5kg recyclable 'bag in a box' containers.

Substrate	Recommendation
Synthetics	Uvijet Graphium RA has been developed for use on a wide range of synthetic substrates including: PVC, TC-PE, TC-PP, PS and PET. To ensure that optimum results are obtained it is important that the surface tension of the materials being printed are above 45 dynes/cm. Corona treatment may also improve the adhesion and lay of an ink.
Papers	Uvijet Graphium RA generally exhibits good performance when printed over the majority of commonly available papers. When printing over absorbent papers there may be issues with the hold-out of the Uvijet Graphium RA inks.
Metallize foils	Uvijet Graphium RA adheres to a number of metallized foils, however, due to the great variety of materials on the market, an individual foil should always be tested.
Hot foiling	Uvijet Graphium RA has good hot foiling properties. Due to the wide variety of foils on the market the properties of an individual foil should always be tested.



THE FUJIFILM GREEN POLICY

We at Fujifilm believe that "sustainable development" of the Earth, mankind, and companies in the 21st century is an issue that must be addressed with the highest priority. As a socially responsible corporation, we actively undertake corporate activities with our environmental values in mind. We strive to be a dedicated steward of the environment and assist our customers and corporate partners in doing the same.