Uvijet KV inks are exclusively designed for the production of decorative print in deep draw thermoforming applications. KV inks have been developed to be printed on Fujifilm Acuity Select and Acuity Select HS UV inkjet platforms, opening up many creative design and customization opportunities for thermoformed products.

The balanced 4 color process plus white set delivers excellent graphic reproduction with near-photographic image quality and vibrant colors. The unique formulation of KV inks enables use in certain applications where the draw is in excess of 1000% elongation.

Uvijet KV Features:
- Developed for deep-draw thermo forming
- Outstanding adhesion range to wide range of thermoformed media
- Excellent finishing properties, bending, creasing, routing, guillotining
- UV cure for immediate use
- Vibrant CMYK+W color set
- Near photographic print quality
- Recommended for both internal and external applications
- Anti-reflective low satin finish
INK PROPERTIES

The Uvijet KV ink range is a high quality UV curable inkjet system designed for piezo drop-on-demand printheads. The inks offer superb dot reproduction, lightfast colors with excellent adhesion and elongation on a wide range of materials commonly used in thermoforming applications.

APPLICATION RANGE

Uvijet KV inks are formulated specifically to maximize the benefits of Fujifilm’s Acuity Select and Select HS UV curing printers. Uvijet KV inks are designed to decorate rigid plastic materials commonly used in thermoforming.

Some forming applications on clear materials may require a white back-up print. In these cases, Fujifilm recommends KV021 White which has also been designed specifically for thermoforming applications.

While Uvijet KV is primarily formulated for thermoforming applications, because of its excellent adhesion and scratch resistance, Uvijet KV can also be utilized for general purpose use.

PLASTICS

Certain plastics may contain lubricants which, like plasticizers, migrate impairing adhesion and block resistance.

There may also be residues from glues and adhesives used on backing sheets. This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

To reduce the risk of problems generated by the build-up of static electricity it is advisable to pass an earthed anti-static brush over the material prior to printing. Allow static generated from protective sheets to dissipate before printing. Ensure that the printer is cited as per recommended humidity/temperature recommendations 40 - 70% RH, 64°F to 86°F (18°C to 30°C).

OUTDOOR USE

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet WI inks equates to approximately 12 months outdoor exposure in a temperate climate. If finished prints will be subjected to outdoor exposure exceeding 12 months, the use of an overprint clear or overlaminate is strongly recommended.

STORAGE

Uvijet KV 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 to 86°F (5°C to 30°C). Storage outside of these temperatures may lead to deterioration in the performance of the products.

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

CHEMICAL AND ABRASION RESISTANCE

Uvijet KV inks have good water and abrasion resistance.

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Adhesion (Outside)</th>
<th>Forming (Inside)</th>
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</thead>
<tbody>
<tr>
<td>PS</td>
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</tr>
</tbody>
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Excellent ★ ★ ★ Good ★ ★ Fair ★