

# TRIANGLE®

# MGA

## UV curable pigmented inks

### Technical Data Sheet

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## MGA

*is a premium UV curable high density pigmented inkjet ink set formulated for use in the Durst® Rho™ 500 and 800 printer series.*

Triangle's **MGA** acrylate-based UV curable inks are optimized for extremely high pigment density and wide color gamut. **MGA** is intended for use on a wide range of display graphics media including rigid and semi-rigid surfaces. The inks have been developed to have good adhesion to a wide range of substrates including many plastics; achieving good adhesion to polyolefin substrates after adequate surface treatment such as corona treatment. These inks are intended for jetting through piezo DOD print heads at elevated temperatures (up to 60°C)

- ▼ Fast cure speeds
- ▼ Longer outdoor adhesion in cold temps
- ▼ Lower cost
- ▼ UV & water resistant without coating or lamination.\*
- ▼ Excellent adhesion on a wide array of flexible, semi-rigid and rigid substrates.

### Packaging



- ▼ 10 Color  
CMYK, Lt. Cyan, Lt. Magenta, Orange, Green, Violet, White, Clear, UV Print Head Conditioner

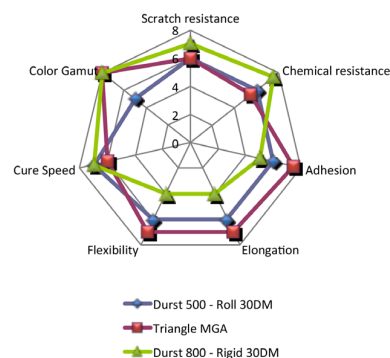


- ▼ 5 liter x 2 Bag in box .  
Net Quantity 10 liters

### Property Gamut

The spider chart below demonstrates the properties of Triangle's **MGA** ink system in comparison to the Durst Series ink system for their UVjet

OEM inks vs. TRIANGLE™ MGA



### Printing Room Temperature

Should be between 20°C - 25°C  
(68°F - 77°F).

### Printing Room Humidity

Should be between 40% and 75% relative humidity.

### Storage

Should be between 15°C - 30°C, (59°F - 86°F). Storing this product outside the recommended storage condition can cause irreversible damage. When stored properly inks have a 12 month shelf life. Allow 8 hours for inks and substrates to acclimate in the printing room before use.

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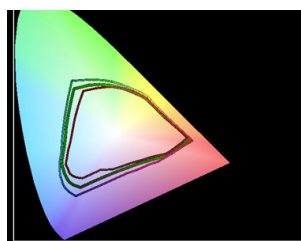
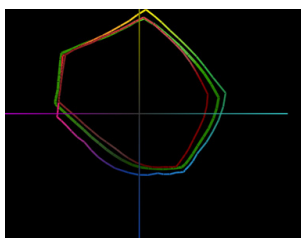
## Property Gamut

MGA is intended for jetting through piezo DOD printheads at elevated temperatures. Prolonged exposure to temperatures above 55°C however, should be avoided as long term exposure to high temperatures can induce premature polymerization.

Typical Physical Properties

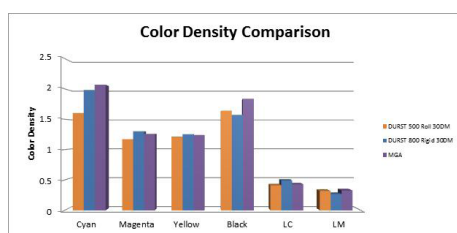
| Properties                 |       | Range          |
|----------------------------|-------|----------------|
| Viscosity at 20 rpm (cps)  | 40 °C | 16.3-17.0      |
|                            | 45 °C | 13.5-13.9      |
|                            | 55 °C | 9.7 - 10.1     |
|                            | 60 °C | 8.0 - 8.6      |
| Surface Tension (dynes/cm) | 2     | 5 °C 26.0-27.5 |

The **RED** is Durst Roll 30DM ink,  
The **GREEN** is Durst Rigid 30DM ink,  
The largest gamut is Triangle.



## Color Density

Triangle's MGA inks were optimized for extremely high pigment density as seen in the density chart below.

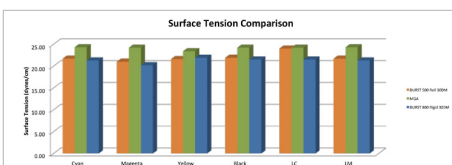


## Ink Coverage

MGA inks were specially formulated to perform on a wide variety of substrates while still providing optimal operating efficiency for outdoor applications. These inks will match if not outperform those of the OEM.

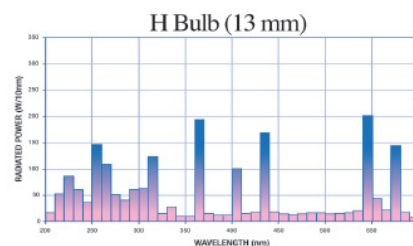
## Surface Tension

MGA is carefully formulated for dynamic surface tension, rheological parameters, and static surface tension, all of which lead to a consistent product.



## Cure Speed

MGA is optimized for the Honle H bulb. The new JetCURE series was specifically developed for wide-format inkjet printing applications. These high-performance UV dryers (up to 240 W/cm) permit excellent curing and enhanced printing quality - even at high printing speeds. JetCURE units are equipped standard with dichroic reflectors, a shutter system and can be controlled by an electronic power supply.



## Outdoor Durability

MGA inks are designed for outdoor use and with a suitable substrate and correct ink application should withstand 1-2 years of exposure. Laboratory tests passed the 2 year outdoor durability criteria (delta E <10 using accelerated testing equipment).

## Flexibility and Adhesion

Triangle's MGA inks are formulated to achieve optimum adhesion on a wide array of flexible, semi-rigid and rigid substrates for the display graphics market. Certain display graphics media types such as cast acrylics, polycarbonate, and other non-ionic surfaces can be problematic, but the use of our BondAid® adhesion promoters or Ceptor® primers can solve many adhesion issues.

\*Conditions apply. This information has been carefully studied from experience gained in the laboratory and under commercial situations. It is subject to change without notice. All sales are subject to our standard terms and conditions of sale. Since applications vary tremendously, the user assumes the obligation to test this product in their specific situation to determine its suitability and assumes all risk and liability related to such use. INX Digital International Co. makes no warranty, express or implied, for the use of the product for any particular application. In no event shall INX Digital International Co. be liable for damages in excess of the original cost of the product nor shall INX Digital International Co. be liable for any special or consequential damages. \*\*Coverage was calculated using actual figures obtained from a print shop. Coverage depends on the file being printed and printer settings. MGA is not endorsed by Durst® RHO™ names and copyrighted materials are the property of Durst Phototechnik AG, Brixen, Italy.

