

Technical Data Sheet

PrimaJET ***UV curable inkjet inks***

Value Creation for Printing



Technical Data Sheet

Product Description.....

Prima JET UV inkjet inks is for use in piezoelectric, DOD print heads. These inks provide high flexibility and elongation as well as excellent adhesion with good chemical resistance to recommended substrate.

Primary uses of Prima JET UV inkjet inks is general substrate as like ABS, and industrial label substrate where flexibility is of importance



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Product Description.....

Main advantage of Primajet UV inkjet inks are as follows :

- UV curable printing inks without solvent.
- Formulated for use flexibility and elongation.
- Formulated high performance pigments for highest chroma
- Excellent light fastness(pigments are all 7-8 on Blue Wool scale)
 - * Accelerated weathering test by Xenon Arc Weather meter
 - * Can be 24 month exposure in outdoor
- Fast curing speed.
- Abrasion resistance.



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Product Range.....

Primajet 153 Yellow

Primajet 918 Black

Primajet 612 Light Cyan

Primajet 001 Cleaning Solution

Primajet 100 Flush Solution

Primajet 456 Magenta

Primajet 306 Light Magenta

Primajet 1024 White

Primajet 765 Cyan

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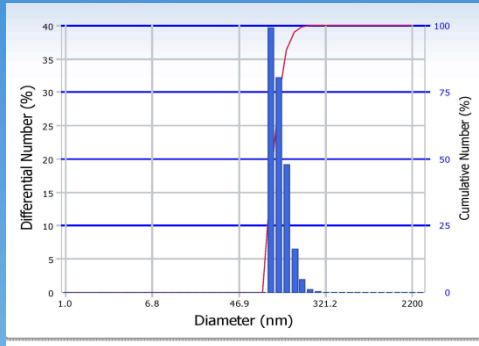
High-performance nano pigment dispersion used.....

These pigment in Primajet inks offer outstanding resistance to light, weather, heat, chemical and solvent.

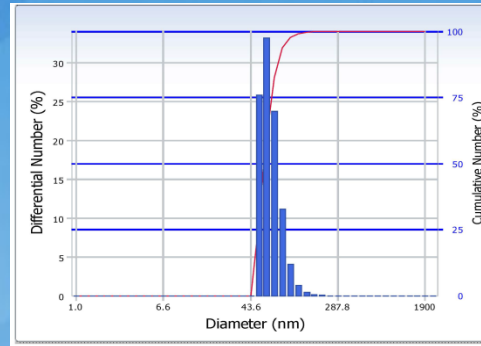
All of pigment in Primajet inks is from TRJ dispersion which particle size is under **200 nanometer** by JESCO dispersion technology.



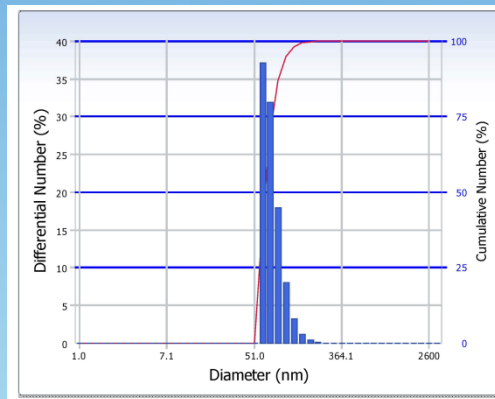
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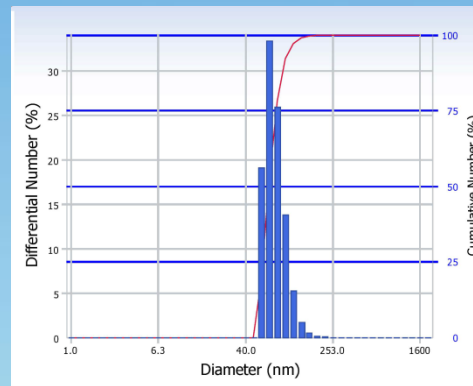
Yellow pigment
Average Diameter 157.6 nm



Magenta pigment
Average Diameter 196.8 nm



Cyan pigment
Average Diameter 156.3 nm



Black pigment
Average Diameter 134.1 nm

Measurement condition
Temperature : 25 °C
Diluent Nmae : MEK
Refractive Index ; 1.38
Viscosity : 0.4016 (cp)
Scattering Intensity : 7899(cps)



**Pigment dispersion
for Primajet**

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Curing Parameters.....

Primajet UV inkjet inks are formulated to cure when exposed to a focused , medium pressure mercury vapor lamp providing 225 – 300 mJ/cm² and 600W/cm².

The actual level of cure will depend on ink thickness , substrate , and UV curing lamps being used. Superior through cure may be obtained by reducing the print speed to increase the overall UV dose. The inks will undergo dark cure at room temperature or an optional thermal post -cure at 200°C for 5 minutes or less may be required. Further recommendation on obtaining best cure could be provided depending on the end user application.



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Viscosity Range(c p s)

Temp(°C)	153 YELLOW	306 L . Magenta	456 Magenta	612 L . Cyan	765 Cyan	918 Black	1024 White
25	14.6	14.0	15.3	14.0	15.4	14.6	18.9
40	8.9	8.5	9.7	8.5	9.9	8.9	13.5
45	8.0	7.5	8.5	7.5	8.6	8.0	12.8
50	7.5	7.0	7.0	7.0	7.0	7.7	11.2

Measured by Brookfield DV-2+ / Spindle No. 18 / 120 rpm / 5 minutes
* Viscosity can be control by customers requirement.



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Evaluated Print Head.....

Konica 512 –New series

Xaar 760 GS8

Spectra Nova JA 256 / 80

Galaxy JA 256 / 80

Galaxy JA 256 / 30

OTHERS .



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Storage condition.....

This inks should always kept away from heat , sunlight , sparks. And flames. Store inks and solution at 18 – 40°C at a humidity from 20 – 50% in non-condensing environment.

The shelf life of this products is 12 months from the date of manufacture when stored under prescribed conditions.

Ink Handling & Environmental information....

Wear gloves and eye protection device when handling inks and Consult Material Safety Data Sheet for further instruction and Environmental information.



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Disclaimer...

The information and recommendations contained in this TDS as well as technical advice otherwise given by representative 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 material vary.

For the same reason our products are sold without warranty and on condition that users shall make their own test 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 PDS Out of date and users are requested to ensure that they follow current recommendations.

