



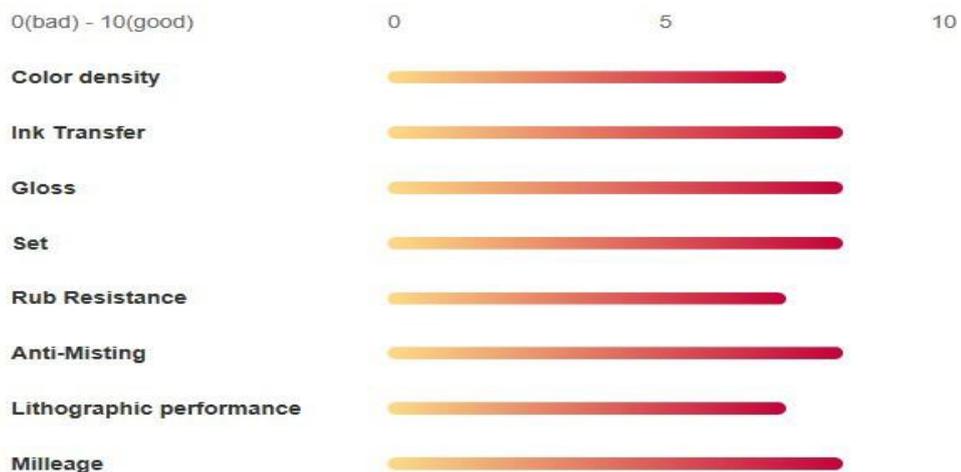
## ECOLON PREMIUM (VOC FREE)

### 1. Outline

ECOLON PREMIUM (VOC FREE) sheetfed ink is a 100% vegetable oil-based ink that is eco-friendly and minimizes the impact of VOC on the printing process or printed products. In addition, it is a highly pigmented ink with superior lithographic performance and excellent ink transfer. It is an environmentally friendly product that achieves outstanding print quality on various printing substrates, such as art coated, matt coated and carton board.

### 2. Features

- Eco-friendly, 100% vegetable oil-based ink, containing Soy Oil.
- High color strength
- Easy adjustment of ink and water, wide water window
- High gloss, fast drying characteristics
- Excellent ink transfer and excellent dot reproduction
- Achieves stable print quality on various printing substrates.
- VOC content less than 1%
- Obtained Eco Mark from Japan and Korea Environmental Associations
- International printing standard ISO 2846-1, ISO 12647-2
- Compliance with ROHS, REACH, ASTM F-963, EN 71-3



# ECOLON PREMIUM

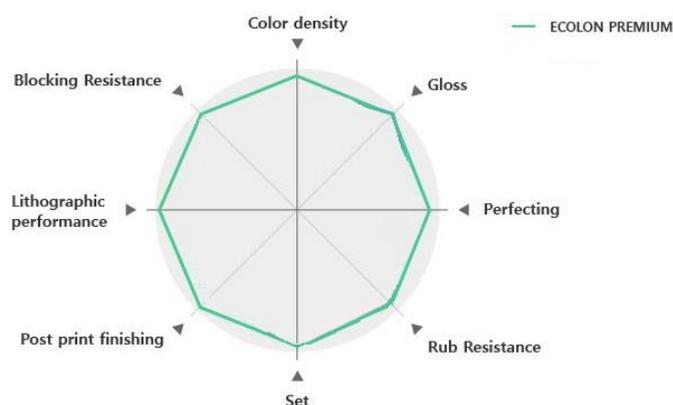
## 3 RESISTANCES

	Lightfastness	Alcohol resistance	Alkaline resistance	Foil Lamination Ability	UV Varnish Ability	Aqueous Coating Ability
YELLOW	5	+	+	+	+	+
MAGENTA	5	+	-	+	+	-(*)
CYAN	8	+	+	+	+	+
BLACK	8	+	+	+	+	+

\* Due to potential color shift, it is advised that test prints are made before starting a production run.

\* We recommend testing the drying behavior and adhesion on the respective substrate before the production run.

## 4. PERFORMANCE



## 5. STORAGE AND PACKING

Only store the ink in a specified place at ambient temperature – ideally the temperature range should be 18 -25 °C.

1kg vacuum tin / 12 cans in a box

2.5kg vacuum tin / 4 cans in a box

200kg barrels

## 6. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

KMI inks are formulated based on EU regulations, EU REACH and for detailed information, please refer to recent SDS.

*This data sheet is for information and reference when using KMI inks. It is correct to the best of KMI's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. During application, performance of the product can be affected by various factors which are beyond the control of KMI, so it is highly recommended that a test print is made before committing to a production run. The information contained herein may be modified without prior notice.*

# TECHNICAL DATA ECOLON PREMIUM

	Yellow	MAGENTA	CYAN	BLACK
	ECOLON PREMIUM (KMI)	ECOLON PREMIUM (KMI)	ECOLON PREMIUM (KMI)	ECOLON PREMIUM (KMI)
■ TACK	16.5	17.5	18.0	18.0
■ FLOW(mm/mio)	40.5	37.5	39	38
■ Viscosity(poise)	210	275	290	255
■ Fluidity On Glass(mm/hr)	120	230	175	110
■ Density	1.93	2.15	2.63	2.63
■ Gloss	68	63	60	67
■ Setting Time(mio)	4	5	5	4.5
■ Drying time(hr)	Paper	4	3.5	4.5
	Plastic	35	35	32
■ Rub resis1ance	A	A	A	A
■ W.T.U(%)	25	25	25	25
■ Conductivity(μs/cm)	1750	1720	1820	1830
■ Grind(J.GD)	5 !	5 !	5 !	5 !

- Remark: Rub Resistance (coated art paper): A(Good) ~ D(Bad)

## ◆ TEST METHODS ◆

- Tack: Ink-O-meter thwing-albert 1200rpm/32 °C/60sec
- Flow: Spread meter/diameter/25 °C/60sec
- Viscosity(PV/k): Laray viscometer
- Density: Measured by GRETAGMACBETH D-196 Densitometer
- Gloss: Gloss meter BYK Tri Gloss 60°
- Drying Time(Plastic) : Drying time on th Plastic Plate
- Drying Time(Paper) : Drying time on the Parchment paper(48g/m')
- Rub Resistance: PrUtbaU Quartant
- Emulsification : Duke emulsification tester
- Grind : Grind-O-Meter (0-25)

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