

WE

MAKE

INKS

PAPIJET

INKS FOR DIGITAL TEXTILE AND UV PRINTING

BY KISCO

REACTIVE INK

Extremely high performance inks

WATER
BASED
I N K



PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

FOR KYOCERA PAPIJET TxRK 403

Based on our extensive knowledge of reactive dyestuffs, KISCO developed reactive inks to illustrate a large color space in digital textile printing for cellulose fibers. The PAPIJET TxRK series are reactive inks optimized for Kyocera heads and have been approved by a number of leading printer manufacturers. Our first generation ink, PAPIJET TxRK has been certified by Kyocera. The ink formulations for all 8 colors of the PAPIJET TxRK series are designed to present the best runnability. The PAPIJET TxRK series are ecologically-friendly, water-based, reactive inks with overall good fastness, outstanding fast dry properties, excellent stability and reproducibility.

Shades



Fastness Properties

	Light	Washing	Water	Perspiration		Rubbing	
	ISO 105-B02	ISO 105-C06	ISO 105-C06	ISO 105-E04		ISO 105-X12	
				Acid	Alkali	Dry	Wet
				Ch/CO/WO	Ch/CO/WO	Ch	Ch
Yellow TxRK 403	Over 4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4-5/4-5	4-5	3-4
Orange TxRK 403	4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4/4-5	4-5/3-4/4-5	4-5	3
Magenta TxRK 403	4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4/4-5	4-5/4/4-5	4-5	2-3
Red TxRK 403	Over 4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4/4-5	4-5/4/4-5	4-5	2-3
Cyan TxRK 403	Over 4	4-5/4-5/4-5	4-5/3-4/3-4	4-5/3/3-4	4-5/2-3/3-4	4-5	2-3
Blue TxRK 403	Over 4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4-5/4	4-5/4-5/4-5	4-5	3
Black TxRK	Over 4	4-5/4-5/4-5	4-5/4-5/4-5	4-5/4/4	4-5/3-4/4-5	4-5	2-3

The following data represents results of internal test performed with the specified ink and fabric. Result in actual and use may vary depending on the particular conditions of use.

Application

Cellulose and its blends for apparel, home furnishing and silk



Certified
ISO 9001
ISO 14001
ISO 45001



HEAD OFFICE

Kyung-In Synthetic Corporation,
572 Gonghang-daero, Yangcheon-gu,
Seoul, Republic of Korea

Tel: +82-2-3665-4001
URL: www.kisco.co

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Pre-Treatment

Improves adhesion for Pigment Inks

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PAPIJET TxPT-CLK 20 | TxPT-CDB 50

KISCO develops and produces pre-treatment solutions for pigment inks. These enhance color strength and maintain the fastness on fabrics. Our PAPIJET TxPT-CLK20 is optimized for printing on white, cotton fabrics. It can increase the color strength of PAPIJET TxP/TxPK 201 inks by up to 70%. Our PAPIJET TxPT-CDB50 is optimized for DTG printing. It provides good protection and improves print quality.

For DTP : TxPT-CLK 20

Dilution Ratio : 20%

Dilution Ratio (%)	Strength(%)			
	Cyan	Magenta	Yellow	Black
20%	148	169	191	166

* STD: TxP 201 Untreated Fabric

Padding Condition : pick-up 60~70% / Dry Condition : 105°C, 1~2min

Fastness Properties

	Untreated Fabric		KISCO(CLK 20) Pretreated Fabric	
	Dry	Wet	Dry	Wet
Cyan	4	4-5	4-5	4
Magenta	4-5	4-5	4-5	4
Yellow	4-5	4	4-5	4
Black	4-5	3-4	4-5	3

For DTG : TxPT-CDB 50



Certified
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ISO 14001
OHSAS 18001



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572, Gonghang-daero, Yangcheon-gu,
Seoul, Republic of Korea

Tel:+82-2-3665-4001
URL:www.kisco.co

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PIGMENT INK

Direct to Film inks

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PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

PAPIJET TxPF FOR EPSON

KISCO develops and produces high-color, high-fastness, water-based pigment inks that are based on advanced pigment dispersion technologies. Our Direct-To-Film (DTF) are inks optimized for Epson heads. They deliver stable print quality, bright colors and excellent fastness. DTF inks are eco-friendly products that do not contain hazardous substances such as halogenated organics. Their safety is certified under RoHS 2.0.

DTF inks are printed onto films which can then be applied to substrates using a heat transfer process. Applications include a wide variety of textile fabrics and clothing. DTF printing is a lower-cost process that provides great flexibility to deliver high quality, eye-catching results.

Shades



Physical Properties

Parameter	from	up to	Unit	Measuring Instrument
Surface tension	25.0	40.0	dyne/cm	K20 EASY DYNE [KRUS Scientific Company]
Viscosity (dynamic)	3.0	4-5	cP	LVDV-II + Pro [Brookfield Engineering Laboratory]
pH	8.0	9.0	-	Orion 3 Star [Thermo Electron Corporation]
Particle size	Color 90.0	130.0	nm	NPA 252-1 [Microtac Instrument Corporation]
	White 200.0	280.0	nm	

All measurements are made at 25±5°C and were recorded after 30 seconds

Application

Wide application

Optimized media : FIM-TxPF-F600 (Roll type), FIM-TxPF-F300 (Roll type)



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572, Gonghang-daero, Yangcheon-gu,
Seoul, Republic of Korea

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URL:www.kisco.co

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PIGMENT INK

Direct to Fabric inks

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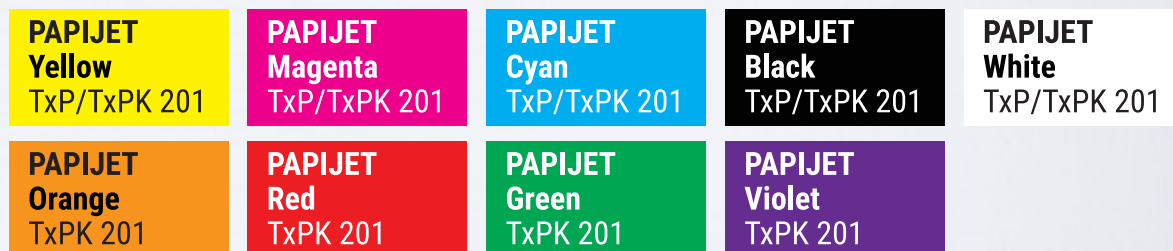


PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

FOR EPSON **PAPIJET TxP 201** | FOR KYOCERA **TxPK 201**

Our PAPIJET Digital Textile Pigment inks deliver high quality prints on a wide range of fabrics. The inks give excellent output stability and are optimized to print with both Epson (TxP) and Kyocera (TxPK) heads. The eco-friendly inks are simple to process and require no further treatment. Prints are soft to touch and exhibit excellent rubbing fastness. The inks give excellent whites that also act as a strong base to deliver clear images.

Shades



Fastness Properties (TxP 201 / TxPK 201)

TxP 201	Washing		Rubbing		Water ISO 105-E01	Light ISO 105 B02	Perspiration ISO 105-E04
	ISO 105-C06	ISO 105-X12					
		Dry	Wet				
Cyan TxP 201	4-5	4	4	4-5	7	4-5	
Magenta TxP 201	4-5	4-5	4	4-5	6-7	4-5	
Yellow TxP 201	4-5	4	4	4-5	>7	4-5	
Black TxP 201	4-5	4-5	3-4	4-5	>7	4-5	

TxPK 201	Washing		Rubbing		Water ISO 105-E01	Light ISO 105 B02	Perspiration ISO 105-E04
	ISO 105-C06	ISO 105-X12					
		Dry	Wet				
Yellow TxPK 201	4-5	4	4	4-5	6-7	4-5	
Magenta TxPK 201	4-5	4	4	4-5	7	4-5	
Cyan TxPK 201	4-5	4	4	4-5	>7	4-5	
Black TxPK 201	4-5	4-5	3-4	4-5	>7	4-5	
Orange TxPK 201	4-5	4	4	4-5	3	4-5	
Red TxPK 201	4-5	4-5	4-5	4-5	5	4-5	
Green TxPK 201	4-5	4-5	4	4-5	6-7	4-5	
Violet TxPK 201	4-5	4-5	4	4-5	6-7	4-5	

Application

Cotton, viscose, silk, wool, linen, polyester & blends



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Kyung-In Synthetic Corporation,
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Seoul, Republic of Korea

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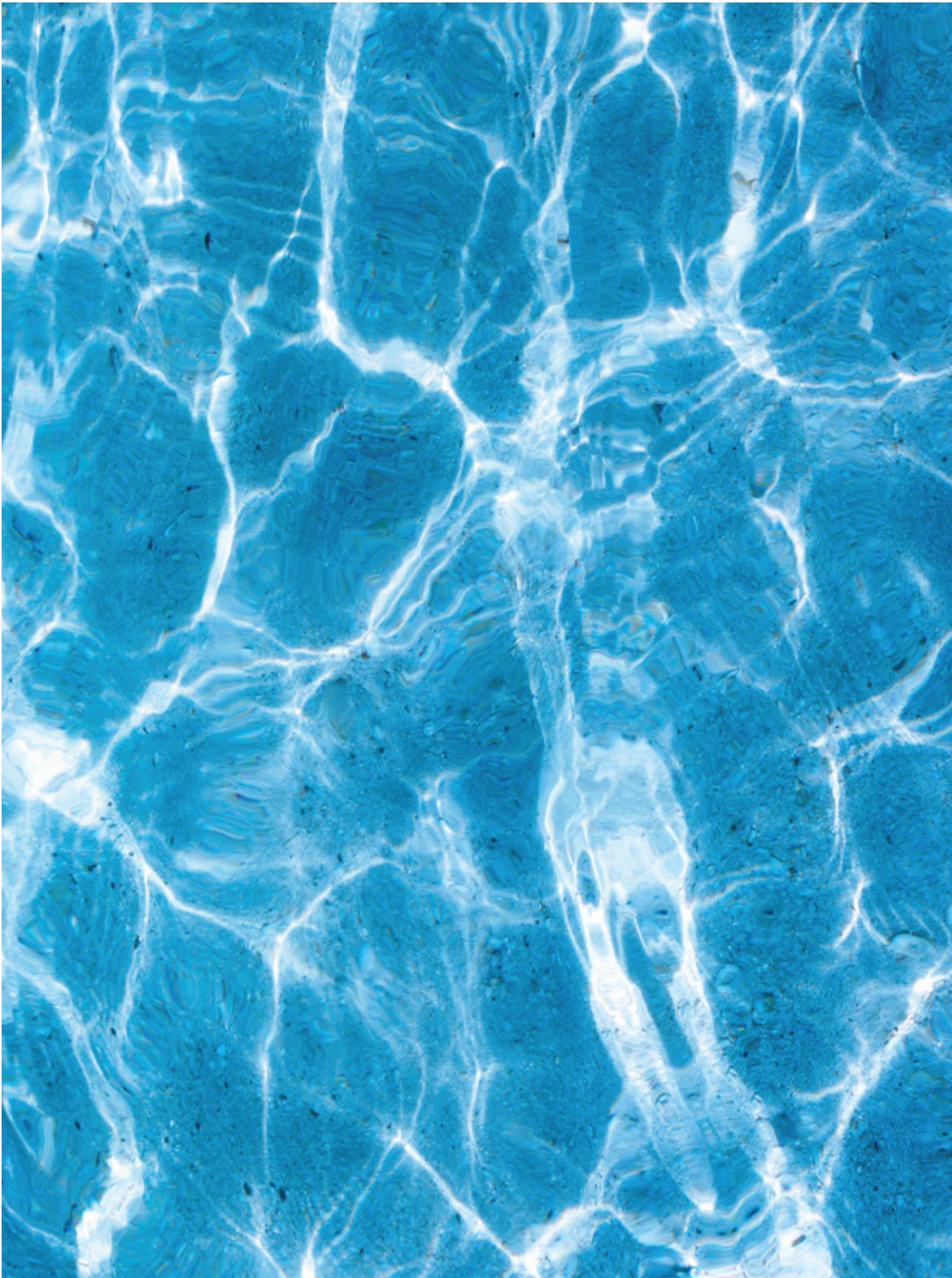
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SUBLIMATION INK

The next generation of sublimation inks

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PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

PAPIJET LTIK 402 FOR KYOCERA

PAPIJET LTIK 402 has been developed for transfer sublimation printing and is compatible with Kyocera print heads. It shows excellent runnability on all printers equipped with Kyocera KJ4B print heads. It is a water-based, dispersed, eco-friendly ink for digital sublimation printing with the highest transfer yield. PAPIJET LTIK 402 has outstanding transferability on coated and uncoated paper and exhibits higher strength than other sublimation inks. It also displays bright shades with good fastness properties.

Shades



Fastness Properties

On Polyester

	Light (Blue scale)	Washing	Water	Perspiration	Rubbing
	ISO 105-B02	ISO 105-C06	ISO 105-C06	ISO 105-E04	ISO 105-X12
	Ch	Ch	Ch	Acid/Alkali	Dry/Wet
Cyan LTIK 402	5	4-5	4-5	4-5/4-5	4-5
Magenta LTIK 402	6	4-5	4-5	4-5/4-5	4-5
Yellow LTIK 402	7	4-5	4-5	4-5/4-5	4-5
Black LTIK 402	4	4-5	4-5	4-5/4-5	4-5

*Blue Scale Standard is based on the 7-step scale of 1 to 7, where 1 is bad and 7 is good.

The following data represents results of internal test performed with the specified ink and fabric. Results in actual end use may vary depending on the particular conditions of use.

Application

Polyester and its blends for sportswear, swimwear, flags and banners



Certified
ISO 9001
ISO 14001
OHSAS 18001



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Kyung-In Synthetic Corporation,
572, Gonghang-daero, Yangcheon-gu,
Seoul, Republic of Korea

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URL: www.kisco.co

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SUBLIMATION INK

The next generation of sublimation inks

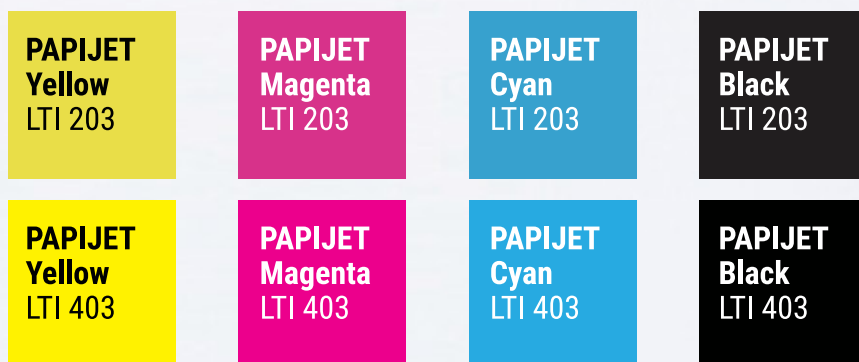
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PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

PAPIJET LTI 203 | LTI 403 FOR EPSON

Shades



Fastness Properties (LTI 203 / LTI 403)

On Polyester

LTI 203	Washing	Rubbing	Perspiration	Water	Light (Blue scale)
	ISO 105 C06:2010	ISO 105 X12:2016	ISO 105 E04:2013	ISO 105 E01:2013	ISO 105 B02:2014
Cyan LTI 203	4-5	4-5	4-5	4-5	5
Magenta LTI 203	4-5	4-5	4-5	4-5	6
Yellow LTI 203	4-5	4-5	4-5	4-5	Over 7
Black LTI 203	4-5	4-5	4-5	4-5	4

LTI 403	Washing	Rubbing	Perspiration	Water	Light (Blue scale)
	ISO 105 C06:2010	ISO 105 X12:2016	ISO 105 E04:2013	ISO 105 E01:2013	ISO 105 B02:2014
Cyan LTI 403	4-5	4-5	4-5	4-5	6
Magenta LTI 403	4-5	4-5	4-5	4-5	7
Yellow LTI 403	4-5	4-5	4-5	4-5	7
Black LTI 403	4-5	4-5	4-5	4-5	4-5

*Blue Scale Standard is based on the 7-step scale of 1 to 7, where 1 is bad and 7 is good.

The following data represents results of internal test performed with the specified ink and fabric. Results in actual end use may vary depending on the particular conditions of use.



Certified
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ISO 45001



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Kyung-In Synthetic Corporation,
572 Gonghang-daero, Yangcheon-gu,
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UV INK

Flexible inks with high adhesion

U V
L E D
I N K S



PAPPIJET
INKS FOR DIGITAL TEXTILE AND UV PRINTING

LED R301

Shades	Cyan, Magenta, Yellow, Black, White
Features	Flexible type No VOCs, good adhesion & flexibility, excellent color, good rubbing resistance, excellent stability
Specification	Ricoh, Toshiba, Konica Minolta, Seiko Viscosity(25°C, cP) : 19~22, surface tension (mN/m) : 20~40
Application(Substrate)	ABS, PC, PS, PET, PVC, Leather (PU), PMA, PMMA etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30°C)
Adhesion Chart	○○○○○○ (ABS, PC, PS, PET, PVC, PU, PMA / PMMA)

LED R312

Shades	Cyan, Magenta, Yellow, Black, White
Features	Universal type No VOCs, good adhesion & flexibility, excellent color, excellent stability and reproducibility
Specification	Ricoh, Toshiba, Konica Minolta, Seiko Viscosity(25°C, cP) : 19~22, surface tension (mN/m) : 20~40
Application(Substrate)	ABS, PET, PVC, PC, PS etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30°C)
Adhesion Chart	○○○○○○ (ABS, PC, PS, PET, PVC)

LED R421

Shades	Cyan, Magenta, Yellow, Black, White, Light Cyan, Light Magenta
Features	Rigid Type No VOCs, NVC Free, Excellent Hardness(up to 4H), Good Adhesion, Excellent Color Good rubbing resistance, Excellent Stability
Specification	Ricoh, Toshiba, Konica Minolta Seiko Viscosity(25°C, cP) : 19~23 cP, Surface tension : 20~40 mN/m
Application(Substrate)	ABS, PET, PVC, PC, PS etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30°C)
Adhesion Chart	○○○○○○ (ABS, PET, PVC, PC, PS)
Hardness Chart	○○○○○○ (PET, PMMA)

LED E312

Shades	Cyan, Magenta, Yellow, Black, White, Light Cyan, Light Magenta
Features	Universal type No VOCs, good adhesion & flexibility, excellent color, excellent stability and reproducibility
Specification	Ricoh (Mimaki), Epson Viscosity(25°C, cP) : 8~12, surface tension (mN/m) : 20~40
Application(Substrate)	ABS, PET, PVC, PC, PS etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30°C)
Adhesion Chart	○○○○○○ (ABS, PET, PVC, PC, PS)

**PAPIJET UV inks comply with RoHS
hazardous chemicals requirements**



Certified
ISO 9001
ISO 14001
ISO 45001



HEAD OFFICE

Kyung-In Synthetic Corporation,
572 Gonghang-daero, Yangcheon-gu,
Seoul, Republic of Korea

Tel:+82-2-3665-4001
URL:www.kisco.co

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PAPIJET

DTP

Type	Series	Shades	Print Head	
Sublimation Inks	LTI 203 (PES) LTI 403, 413 (PES)	CMYK	Epson	
	LTIK 402 (PES)	CMYK	Kyocera	
Reactive Inks	TxRK (Cellulose)	CMYKORBG	Kyocera	
Pigment	DTP DTP / DTG	TxP 201	CMYKW	Epson
		TxPK 201	CMYKORGVW	Kyocera
	DTF	TxPF	CMYKW	Epson
	Pre-Treatment	TxPT-CLK 20		
		TxPT-CDB 50		
Powder	PAPILION (Colorant) Sublimation, Reactive powder			
	PAPICEL IJ			
	PAPICEL (Millbase) MBb series for sublimation Inks MBb-TD series for disperse Inks			

Signage

Type	Series	Shades	Print Head
UV Inks	LED R301 Flexible Type	CMYKW	Ricoh, Toshiba, Konica Minolta, Seiko (ABS, PC, PS, PET, PVC, PU, PMA, PMMA)
	LED R312 Universal Type	CMYKW	Ricoh, Toshiba, Konica Minolta, Seiko (ABS, PC, PS, PET, PVC)
	LED R421 Rigid Type	CMYKWLcLm	
	LED E312 Universal Type	CMYKWLcLm	Ricoh(Mimaki), Epson (ABS, PET, PVC, PC, PS etc)



Certified
ISO 9001
ISO 14001
ISO 45001

ROADMAP TO
ZERO



Qualification

Type	Explanation
<p>bluesign®</p>	<p>Since 2010, KISCO has been certified under the bluesign® system. The bluesign® system is a sustainability framework for the entire textile supply chain. The process tracks the progress of companies in five key areas: resource productivity, consumer safety, air emissions, water emissions and occupational health and safety.</p>
<p>GOTS</p>	<p>The Global Organic Textile Standard (GOTS) is the worldwide leading textile processing standard for organic fibres, including ecological and social criteria, backed up by independent certification of the entire textile supply chain. KISCO's compliance with GOTS is certified by ECOCERT.</p>
<p>ZDHC</p>	<p>The ZDHC Foundation manages the Roadmap to Zero Programme with the aim of phasing out hazardous chemicals in the textile, apparel, footwear and leather value chain by promoting safer chemistry and driving innovation.</p>
<p>ECO PASSPORT by OEKO-TEX®</p>	<p>ECO PASSPORT BY OEKO-TEX® is a chemical, dye and additive certification used in textile and leather production. This means that they are responsible for production and handling chemicals to protect people and the environment, and our certified dye and ink products are proof that they are suitable for sustainable textile production.</p>



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