

# PAPIJET

INKS FOR DIGITAL TEXTILE AND UV PRINTING  
RECOMMENDED FOR WORLD BEATING QUALITY AND HIGH PERFORMANCE

Papijet inks are an alternative to conventional printing dyes that offer superior technical performance at a competitive cost



## *The Ultimate Solution*

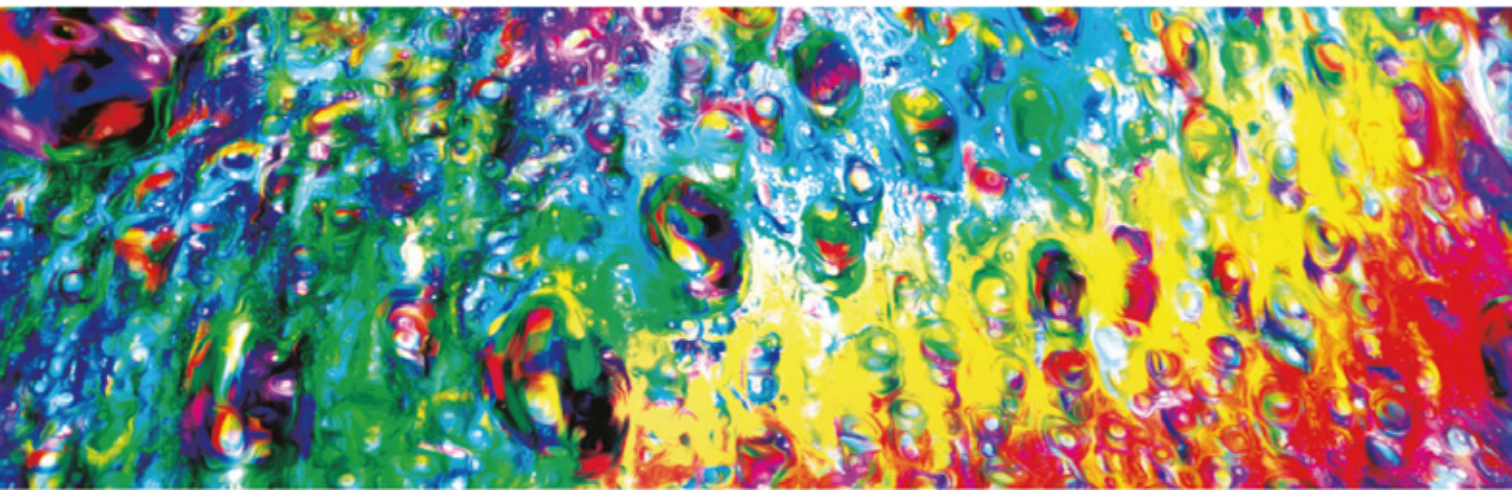
- Wide color gamut to comply with various color management requirements
- Excellent compatibility of digital sampling with conventional production
- Excellent printing performance
- High fastness level, color yield, brightness and brilliancy
- Fewer nozzle blockages or print head failures

**PAPIJET** | **LTI 202**

**PAPIJET** | **LTI 203**

# Sublimation Ink

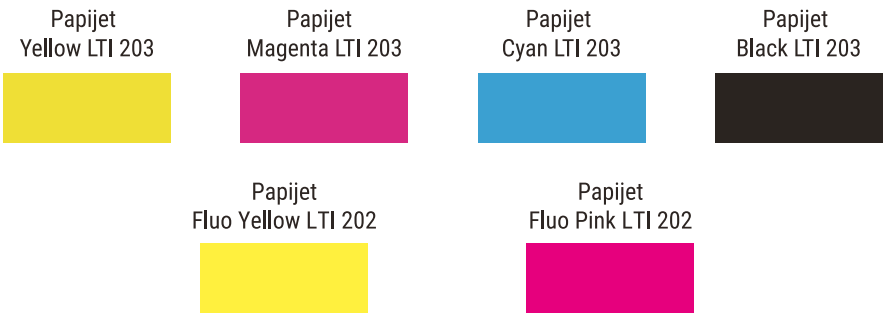
The next generation of sublimation ink



Kyung-In Synthetic Corporation (KISCO) is the biggest dyestuff manufacturer in Korea. With decades of technical know-how and experience of colorants, KISCO develops and produces inks for digital textile printing to meet increasing market demands. We supply high quality and environmentally friendly products to meet the requirements of customers from around the world.

To print on polyester fabrics without steaming and washing, sublimation printing, also known as transfer printing, is the solution. You firstly print the image onto sublimation paper using Papijet LTI 203/Fluo LTI 202 inks and then transfer the image from paper to the polyester fabric. Papijet LTI 203/Fluo LTI 202 is a water-based, disperse, eco-friendly ink for digital direct and sublimation printing with the highest transfer yield using a standard concentration ink. Papijet LTI 203/Fluo LTI 202 shows excellent transferability especially on coated paper and exhibits higher color strength than other sublimation inks. It also delivers bright shades with good fastness properties.

Shades



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

Fastness Properties

On Polyester

	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
Fluo Yellow LTI 202	4-5	4-5	4-5	4-5	Over 4
Fluo Pink LTI 202	4-5	4-5	4-5	4-5	3-4

\* 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.



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**PAPIJET | LTI 403**

**OEKO-TEX®**  
INSPIRING CONFIDENCE  
**ECO PASSPORT** 

# Sublimation Ink

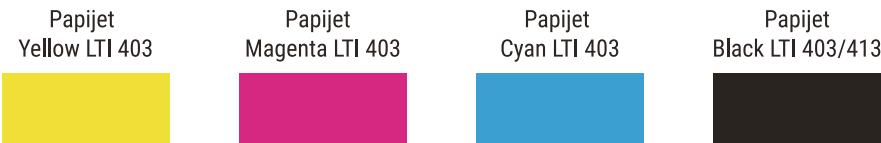
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To print on polyester fabrics without steaming and washing, sublimation printing, also known as transfer printing, is the solution. You firstly print the image onto sublimation paper using Papijet LTI 403 inks and then transfer the image from paper to the polyester fabric. Papijet LTI 403 is a water-based, disperse, eco-friendly ink for digital direct and sublimation printing with the highest transfer yield using a high concentration ink. Papijet LTI 403 shows excellent transferability especially on uncoated paper and exhibits higher color strength than other sublimation inks. It also delivers bright shades with good fastness properties.

Shades



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

Fastness Properties

On Polyester / Spandex (88/22)

	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	5	5	5	5	6
Magenta LTI 403	5	5	5	5	7
Yellow LTI 403	5	5	5	5	7
Black LTI 403/413	5	5	5	5	7

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

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**PAPIJET** | **LTIK 402**  
FOR KYOCERA

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INSPIRING CONFIDENCE  
**ECO PASSPORT** 

# Sublimation Ink

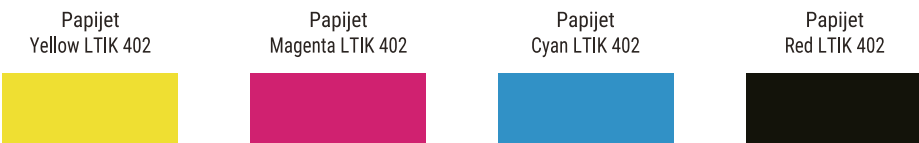
The next generation of sublimation ink



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Papijet LTIK 402 has been developed for transfer sublimation printing and is compatible with Kyocera print heads. It shows excellent runability 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



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

Fastness Properties

On Polyester

	Ligth (Blue scale)	Washing	Water	Perspiration	Rubbing
	ISO 105-B02	ISO 105-C06	ISO 105-E01	ISO 105-E04 Acid/Alkali	ISO 105-X12
	Ch	Ch	Ch	Ch	Dry/Wet
Yellow LTIK 402	7	4-5	4-5	4-5/4-5	4-5
Magenta LTIK 402	6	4-5	4-5	4-5/4-5	4-5
Cyan LTIK 402	5	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.

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# Reactive Ink

Extremely high performance ink

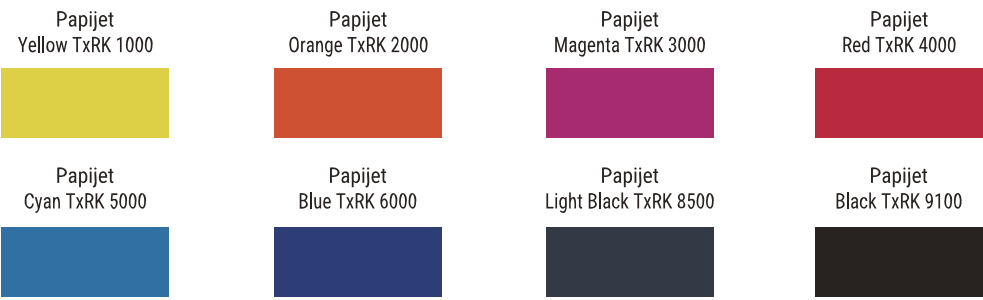


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Based on our extensive knowledge of reactive dyestuffs, KISCO developed reactive inks to illustrate a large color space in digital textile printing for cellulose fibers. The Papijet TxRK is reactive inks optimized for kyocera heads and has been certified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



Shades



Applications : Cellulose and its blends for apparel, home furnishing and silk

Fastness Properties

	Light	Washing	Water	Perspiration		Rubbing	
	ISO 105-B02	ISO 105-C06	ISO 105-E01	ISO 105-E04		ISO 105-X12	
				Acid	Alkali	Dry	Wet
				Ch/CO/WO	Ch/CO/WO	Ch	Ch
Yellow TxRK 1000	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 2000	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 3000	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 4000	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 4500	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 6000	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
Light Black TxRK 8500	3-4	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	4
Black TxRK 9100	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. Results in actual end use may vary depending on the particular conditions of use.



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## LED UV Ink

Extremely high performance ink



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Based on strong demand from customers of our Papijet Sublimation and Reactive inks, KISCO has developed a new range of UV curable inks designed specifically for UV printers. This is the Papijet LED UV range. Papijet LED UV inks have been formulated with a high pigment load to provide vivid colors that exceed user expectations. The inks are also designed to guarantee the same, outstanding results and high stability from every batch. Papijet LED UV inks have been developed by our R&D teams and are produced using our own raw materials. As a color company with almost 50 years of experience, KISCO understands longevity, quality and the importance of reliable supplies. Papijet LED UV inks are also underpinned by KISCO's commitment to safety and sustainability. The inks are formulated using solvents without any VOCs and are safe for our staff and our customers. Papijet LED UV inks for UV printers are the next generation inks from KISCO, creating colors and chemical solutions.

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, Minolta, Seiko Viscosity (25℃, 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℃)
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 Reproducibility
Specification	Ricoh, Toshiba, Minolta, Seiko Viscosity (25℃, cP) : 19~22, Surface tension (mN/m) : 20~40
Application (Substrate)	ABS, PET, PVC etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30℃)
Adhesion Chart	○○○○○○ (ABS, PC, PS, PET, PVC)

LED E312

Shades	Cyan, Magenta, Yellow, Black, White
Features	Universal type No VOCs, Good Adhesion & Flexibility, Excellent Color, Excellent Stability Reproducibility
Specification	Ricoh (Mimaki), Epson Viscosity (25℃, cP) : 8~12, Surface tension (mN/m) : 20~40
Application (Substrate)	ABS, PET, PVC etc
Storage Condition/Packing	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30℃)
Adhesion Chart	○○○○○○ (ABS, PET, PVC)



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**PAPIJET** | **LED SR302**

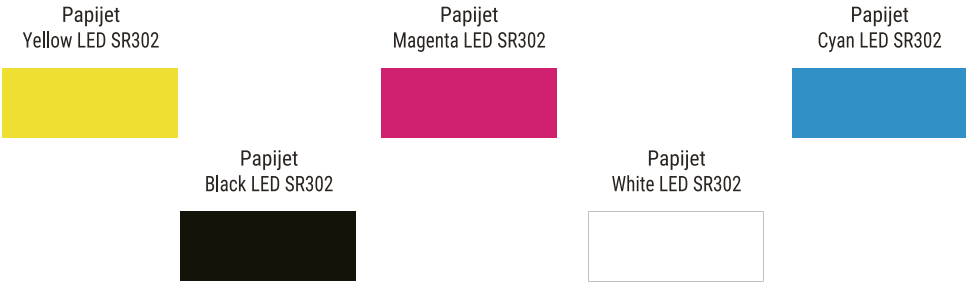
# ECO UV Inks

High Performance Digital UV Inks



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Our PAPIJET Digital UV inks deliver extremely high performance through rapid curing, bright colors with no adverse health effects. The inks do not contain any regulated substances so they comply with safety standards for harmful substances in baby products and toys. The inks are low odor and also meet all standards around indoor air quality and Volatile Organic Compounds (VOCs).



Information

Papijet LED SR302	
Shades	Cyan, Magenta, Yellow, Black, White
Features	Flexible type
	No VOCs
	Good adhesion on a broad range of substrates (expecially PET, PVC)
	Good Flexibility and hardness
	Vivid Color
	High jetting performance and reliability
	Extremely low odor
	Low harmness
Specification	Ricoh Gen 5
	Viscosity (25°C, cP) : 20~25, Surface tension (mN/m) : 15~30
Applications (Substrate)	Applicable to various applications inclusive toys and baby products (PET, PVC etc.)
Substrate	1kg Bottle, It is recommended to keep cool and protect from light and heat (Temperature 10~30°C)
Adhesion Chart	⊙⊙⊙⊙⊙ (PET, PVC etc)
Regulations	Satisfying EU Toy Safety Directive 2009/48/EC standards
	No lead / No Phthalates



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**PAPIJET**

**TxP 201**  
FOR EPSON

**TxPK 201**  
FOR KYOCERA

# Direct to Fabric Inks

High Performance Digital Textile Pigment Ink



Kyung-In Synthetic Corporation (KISCO) is the biggest dyestuff manufacturer in Korea. With decades of technical know-how and experience of colorants, KISCO develops and produces inks for digital textile printing to meet increasing market demands. We supply high quality and environmentally friendly products to meet the requirements of customers from around the world.

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

Papijet  
Yellow TxP 201 / TxPK 201

Papijet  
Magenta TxP 201 / TxPK 201

Papijet  
Cyan TxP 201 / TxPK 201

Papijet  
Black TxP 201 / TxPK 201

Papijet  
White TxP 201 / TxPK 201

Papijet  
Organge TxPK 201

Papijet  
Red TxPK 201

Papijet  
Green TxPK 201

Papijet  
Violet TxPK 201

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

Fastness Properties (TxP 201)

	Washing	Rubbing		Water	Light	Perspiration
	ISO 105-C06	ISO 105-X12		ISO 105-E01	ISO 105 B02	ISO 105-E04
		Dry	Wet			
Cyan TxP 201	4-5	4-5	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

Fastness Properties (TxPK 201)

	Washing	Rubbing		Water	Light	Perspiration
	ISO 105-C06	ISO 105-X12		ISO 105-E01	ISO 105 B02	ISO 105-E04
		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



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DTF Ink

Direct-To-Film Inks for a wide variety of substrates



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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

Papijet  
Yellow TxPF



Papijet  
Magenta TxPF



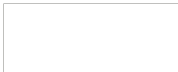
Papijet  
Cyan TxPF



Papijet  
Black TxPF



Papijet  
White TxPF



\* Papijet Cleaner TxPF

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

Physical Properties

Parameter			Unit	Measuring Instrument
	from	up to		
Surface tension	25.0	40.0	dyne/cm	K20 EASY DYNE [KRUSS 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

Technical Data Sheet

Printed on clear PET films, this product shows exceptionally vivid color reproduction, consistent image quality and good repeatability.

Product Name		Base Material		
FIM-TxPF		Clear PET		
Property		Spec.	Unit	Test Method
Total Thickness		84 ± 5	μm	ISO 534
Total Weight		113 ± 5	g/m <sup>2</sup>	ISO 536
Surface Finish		Matte	—	—
Opacity		—	%	ISO 2471
Gloss (60 Deg)		≤ 10	—	ISO 2813
Lab Color	L	—	—	ANSI T (D50/2°)
	a	—		
	b	—		
Transfer Temp. (°C) / Time (sec)		150~170 / 15 ~ 30		—
Roll Length		100 m		
Roll Width		60 cm		
Ink absorption		Textile Pigment ink		
Storage conditions		15 to 30°C (Temp.) / 35 to 55% (Humidity)		
Recommended period of use		Indoor, within 6 months		
Product Warranty Period		Indoor, 1 year unopened in original packaging		
Precautions for washing		Do not mix with other clothes. Do not dry clean or bleach		

Usage Instructions

We recommend washing the transferred T-shirts separately with ordinary detergent and cold water. Do not scratch the film or transferred print with sharp objects.

After opening, keep ink sealed to prevent moisture and high temperature when not in use.



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