

Technical features

03.2018

Colour	Code SCL-HK11	Light Fastness (EN ISO 105 B 02)	Washing Fastness (EN ISO 105 C 02)	Perspiration Fastness (EN ISO 105 E 04)	Sublimation Class
Black Night	271	5-6	4-5	4-5	B-C
Cyan	230	5-6	4-5	4-5	C
Magenta	210	6-7	4-5	5	C
Yellow	200	6-7	4-5	4-5	B
Iso Black	274	5-6	4-5	5	B-C
Light Cyan	231	5-6	4-5	4-5	C
Light Magenta	211	6-7	4-5	5	C
Turquoise	232	6-7	5	5	C
Blue	240	6	4-5	5	B-C
Orange	250	5-6	4-5	5	B
Total Black	272	6	4-5	5	B-C
Yellow Fluo	280	4	4-5	5	B
Pink Fluo	281	5	4-5	5	C
Full Black	273	5-6	4-5	5	B-C
Violet	282	6-7	5	5	C

NOTE: the listed results are referred to 100% PES fabrics. For any different fabric and further details, please contact us.

DISCLAIMER

This technical sheet is not intended to be exhaustive; this product is for professional use only; any product usage other than those specifically recommended with no further confirmation by Isocarbo Srl is at one's own risk. Isocarbo Srl guarantees that all given instructions about Isonik SCL-HK11 are correct. Isocarbo Srl has no control over either the quality or the conditions of the substrate or factors that may affect Isonik SCL-HK11 performance. Isocarbo Srl strongly recommends that extensive preliminary tests are performed, in order to evaluate any unexpected product behavior. Unless otherwise approved in writing, Isocarbo Srl shall not be liable for any different performance, loss or damage due to unaccepted use of Isonik SCL-HK11. Isocarbo Srl ensures its commitment to ongoing product development and improvement; hence the content of this technical sheet is susceptible to changes.



Isonik SCL-HK11

Steady and reliable performance for industrial processes

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isonik



Isonik SCL-HK11

Steady and reliable performance for industrial processes

SCL-HK11

KYOCERA	SPORTSWEAR / SPORTS EQUIPMENT	SPECIFIC FOR FASHION	BRIGHT AND VIBRANT COLOURS	TRANSFER PRINTING	HIGH SPEED EQUIPMENT	FOR COATED AND UNCOATED PAPER
STORAGE CONDITIONS 5-30° C TEMPERATURE DRY AND WELL VENTILATED PLACE	PRINTING CONDITIONS 20-25° C TEMPERATURE 40-60 % RH HUMIDITY RANGE	SEA FREIGHT SHIPMENT CONDITIONS 5-30° C TEMPERATURE REFRIGERATED CONTAINER FOR LONG DISTANCE	TRANSFER CONDITIONS 200-210°C FOR 35-45 SEC.	PACKAGING AVAILABLE 5 KG TANK 20 KG TANK	HEAT-SENSITIVE PRODUCT DO NOT EXCEED 30°C KEEP OUT OF DIRECT SUNLIGHT	

Main features

Product Performances

Printability				■ ■ ■ ■ ■
Colour Gamut				■ ■ ■ ■ ■
Dye concentration				■ ■ ■ ■ ■
Drying speed				■ ■ ■ ■ ■
Colour yield coated paper				■ ■ ■ ■ ■
Colour yield uncoated paper				■ ■ ■ ■ ■

Process Performances

Industrial production				■ ■ ■ ■ ■
Long-run production				■ ■ ■ ■ ■
Fashion papers				■ ■ ■ ■ ■
Sportswear papers				■ ■ ■ ■ ■
Transfer rate				■ ■ ■ ■ ■
Ink saving				■ ■ ■ ■ ■



Product description

Isonik SCL-HK11 is a highly concentrated water-based digital sublimation ink for transfer printing. The product is suitable for all printers equipped with Kyocera KJ4B 300 and 600 DPI such as Atexco, Homer, Flora, Alpha, brand leader in Asian market. The long-run test performed on different printers have shown outstanding performances so that Isonik SCL-HK11 is the right choice for industrial printing facilities based on high speed equipments.

Main features

Isonik SCL-HK11 has bright and vibrant colours that ensure a wide and deep colour gamut. The innovative technology of Isonik SCL-HK11 is specifically conceived to deliver very high drying rates and to achieve exceptional colour intensity both on coated and uncoated papers. Isonik SCL-HK11 grants also the best colour release at standard transfer conditions (200-210°C/35-45 sec). The product's unique rheological properties, confer it an excellent fluency and guarantee massive industrial productions without constant interruptions for cleaning procedures. The best performance of Isonik SCL-HK11 can be achieved with any kind of sublimation paper.

Applications

Isonik SCL-HK11 is suitable for 100% polyester fabrics or in blends with different fibers (lycra, viscose, cotton, acrylic) with a minimum percentage of 70%. It can also be used on any substrate (alu, wood, ceramic, glass, etc.) usually unsuitable for the sublimation process, after doing a pretreatment with polyester-polyamide resins. Isonik SCL-HK11 is suitable for sportswear, technical sport equipment (snowboard, ski, wakeboard, bike frame, etc), garments, flag and banners, ceramics, wood, gadgets and decorations.

Instructions

The product is ready to use.

- Keep Isonik SCL-HK11 at room temperature at least 24h before use.
- Set the operation conditions as follows:
 - temperature range: 20-25°C;
 - relative humidity range: 40-60 % RH.
- Transfer Isonik SCL-HK11 by using a calender or a flat press at a temperature of 200-210°C for 35/45 sec.
- Follow the label instructions and the MSDS enclosed.

Preliminary tests are recommended in order to set the best operative parameters (T °C/t sec) and to achieve the desired result.

IMPORTANT: Product performance could vary according to the hardware, software, paper and type of process used.

Packaging and Shipment conditions

Isonik SCL-HK11 is available in 5 Kg and 20 kg tank (on request).

The product is heat-sensitive.

Extensive exposure at a temperature higher than 30°C may irreversibly damage its properties.

- Shipment instructions:
 - temperature range: 5-30°C;
 - refrigerated container is suggested for long distance shipment.
- Storage instructions:
 - Avoid exposure to direct sunlight.
 - Store Isonik SCL-HK11 in a dry and well ventilated place at a temperature range of 5-30°C.