



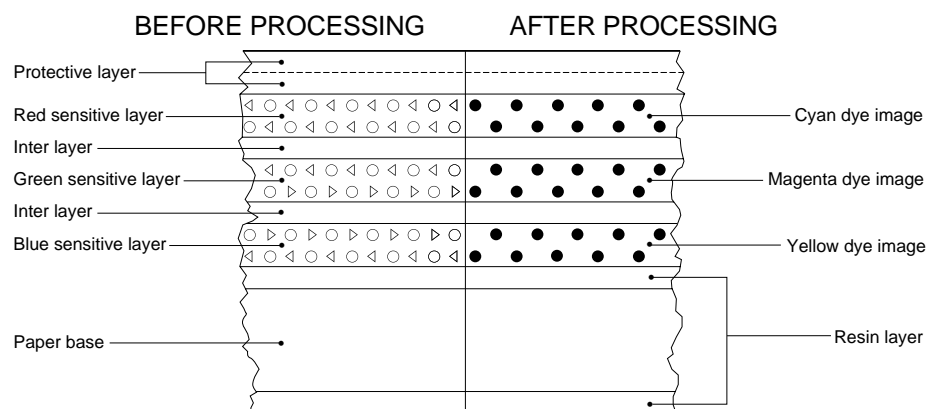
TECHNICAL DATA SHEET

Konica Color Paper Professional HC

FEATURES

Konica Color Paper Professional HC is designed to meet the needs of both commercial and portrait photographers. The new paper has the ability to make high-contrast prints with outstanding neutral scale from highlights through shadows. With its high contrast and high D-max properties, the new paper offers outstanding reproduction of subject texture and three-dimensional qualities. It delivers clear images due to its excellent whiteness, with superior rendering of fine detail in highlight areas for portrait use. Stable contrast balance is maintained even for long exposure printing, making the new paper suitable for large-size enlargements in commercial applications. Besides conventional printers, Professional HC paper delivers excellent performance on digital printers.

LAYER STRUCTURE



PAPER BASE

Polyethylene coated paper

PAPER SIZES AVAILABLE

Various roll and sheet sizes including master rolls are available.

PAPER SURFACES AVAILABLE

Glossy, Matte and Supre-Luxe

STANDARD PROCESSING Konica Color QA Chemicals or RA-4 compatible chemicals.

Abrided Specification for Konica Color QA Chemicals (CPK-2-20):

Processing step	Temperature	Time
Developer*	35.0±0.3°C (95±0.5°F)	45 sec.
Bleach-Fix*	30 to 36°C (86 to 97°F)	45 sec.
Wash or Super Stabilizer	30 to 40°C (86 to 104°F) or 30 to 37°C (86 to 99°F)	90 sec.
Dry	Not over 85°C (185°F)	As required

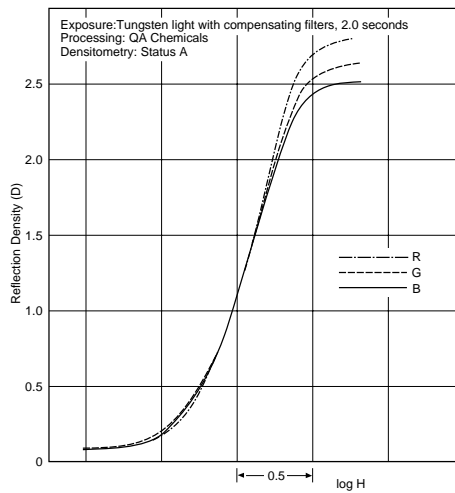
*Total darkness.

SAFE LIGHT

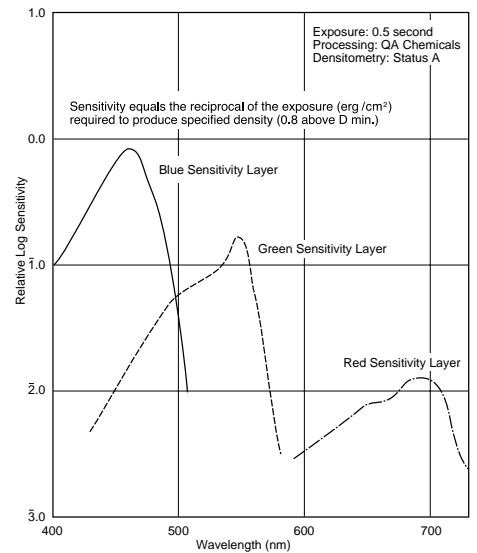
Use of safe light is not recommended. Handle paper in total darkness before and during processing.

CHARACTERISTIC CURVES • SPECTRAL SENSITIVITY

CHARACTERISTIC CURVES

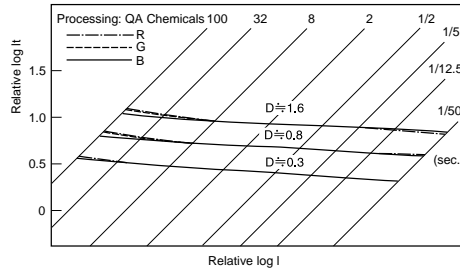


SPECTRAL SENSITIVITY

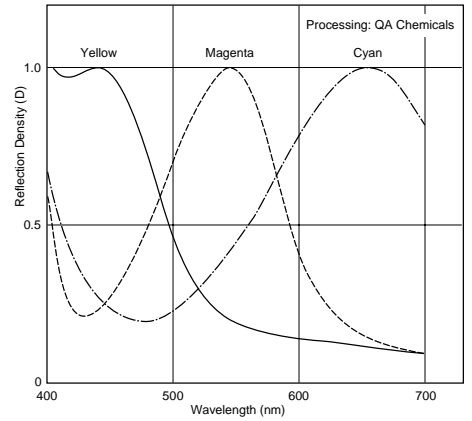


RECIPROCITY CHARACTERISTICS • LATENT IMAGE STABILITY • SPECTRAL DYE DENSITY CURVES

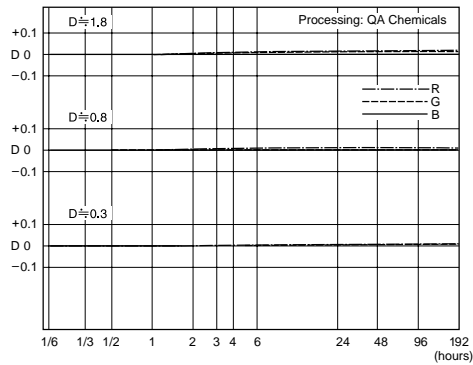
RECIPROCITY CHARACTERISTICS



SPECTRAL DYE DENSITY CURVES



LATENT IMAGE STABILITY



PRECAUTIONS

1. Store unexposed color paper in a cool and dry place (below 10°C or 50°F) such as a refrigerator.
2. To avoid water condensation on the surface and to minimize the effect of paper temperature on print density and color balance, allow paper which has been stored cool to reach room temperature before use. Return the remaining paper to cool storage (below 10°C or 50°F).

WARM-UP TIME (Cool storage to room temperature)

Paper size	From 5 to 22°C(41 to 72°F), 55% RH
85m (=275 ft.) or 8"x10" 100 sheets package	About 2 hours
175m (=575 ft.)	About 5 hours

DYE IMAGE STABILITY UNDER DARK STORAGE CONDITIONS

Konica Color Paper Professional HC features outstanding formed dye image stability under dark storage conditions.

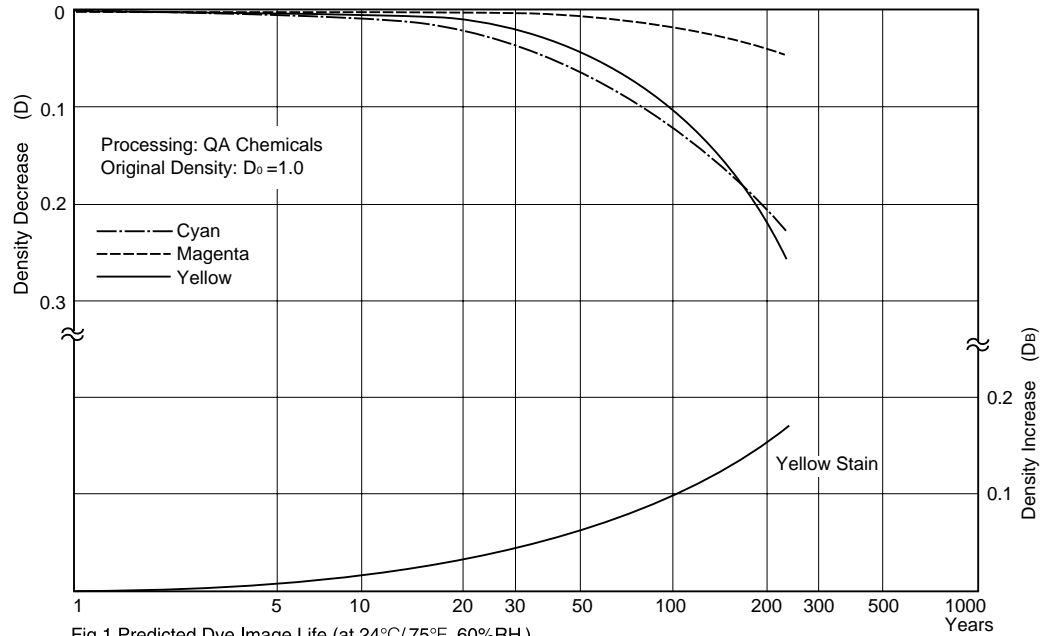


Fig. 1 shows the predicted dye image fading of Konica Color Paper Professional HC at initial density $D_0=1.0$ under the conditions of 60% RH at 24°C/75°F, derived from Arrhenius plots.

On the basis of this graph, yellow, magenta and cyan formed dye images are predicted to retain at least 85% of initial density for 100 years or longer under normal conditions of preservation (in photo album).

DYE IMAGE STABILITY UNDER LIGHT STORAGE CONDITIONS

An important feature of Konica Color Paper Professional HC is excellent dye image stability under light storage conditions, together with its outstanding dye image stability in dark storage.

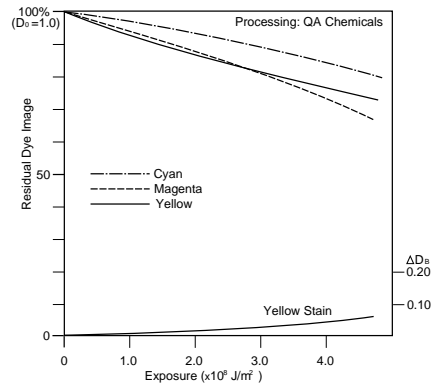


Fig. 2 Dye Image Stability in Light Storage
(Xenon Fade-O-Meter)
(Fading of Neutral Gray of $D_0=1.0$ and Stain Increase)

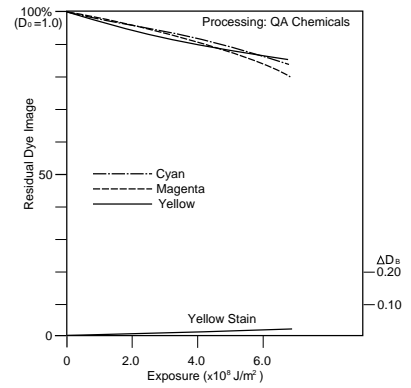


Fig. 3 Dye Image Stability in Light Storage
(Sunlight through Glass Plate)
(Fading of Neutral Gray of $D_0=1.0$ and Stain Increase)

In Figures 2 and 3, the percentages of retained dye images (initial neutral gray $D_0=1.0$) of prints on Konica Color Paper Professional HC are plotted for regular intervals of exposure, yellow staining caused by prolonged exposure to light is greatly reduced.

Outstanding dye image resistance to light enables Konica Color Paper Professional HC to offer longer-lasting rich color and gradation for display photographs.

NOTICE: The characteristic curves and data in this publication represent test results obtained under the specified conditions of exposure and processing. They do not represent standards or specifications for Konica products. The manufacturer reserves the right to modify product characteristics at any time.